# Limited warranty (continued)

How to Obtain Warranty Services If, after following all of the operating instructions in this manual and checking the section "Troubleshooting," you find that service is needed:

- (1) For instructions on how to obtain warranty service for your DAV Product, contact TACP's Consumer Solution Center toll free at 1-800-631-3811.
- (2) You must include a copy or original bill of sale or other You must include a copy or original bill of sale or other proof of purchase along with the entire DAV Product to the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center. You are responsible for all inbound transportation and insurance charges for the DAV Product to the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.

For additional information, visit TACP's website www.tacp.toshiba.com

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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatscever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute or law of the United States or any state thereof is hereby limited to ninety (90) days from the date you discourse the before This. discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising

# **TOSHIBA**

TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C.



Printed in Thailand

# SAFTY PRECAUTIONS





The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL ONE CONSCIDENTAL DAMAGES SO THE BROVE

OR CONSEQUENTIAL DAMAGES, SO THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER

SUCH CIRCUMSTANCES.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, do not expose this appliance to rain

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN

EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

This equipment has been tested and found to comply with the limits for a Class B digital device, FCC NOTICE: pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is
- Consult the dealer or an experienced radio/TV technician for help

CAUTION: Changes or modifications not expressly approved by the partly responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

CAUTION: THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS USER'S GUIDE CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

LISE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

Location of the required Marking
The rating sheet and the safety caution are on the rear of the unit.

CERTIFICATION: COMPLIES WITH FDA RADIATION PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J.



### **TOSHIBA**



# IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a soft dry cloth for cleaning the exterior cabinet only.

6. ATTACHMENTS

The manufacturer of this unit does not make any recommendations for attachments, as they may cause

7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. PORTABLE CART WARNING (symbol provided by RETAC)

8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table The unit may fall, causing serious injury, and serious damage to the unit.

8A. An appliance and cart combination should be moved with care. Quick stops. excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION

Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating.

These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and/or the manufacturer's instructions have been adhered to

S3125A

10. POWER SOURCE

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.

11. GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



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# IMPORTANT SAFEGUARDS

### 13 LIGHTNING

To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges

### 14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall onto or against such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

### 15. OVERLOADING

Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock

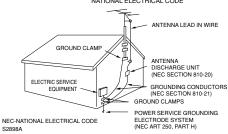
### 16 OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

### 17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



### 18. SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. For example:

- a. When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the unit
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- If the unit has been dropped or the cabinet has been damaged.
- When the unit exhibits a distinct change in performance, this indicates a need for service.

### 4

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# **IMPORTANT SAFEGUARDS**

### 19 REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

### 20. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat 22. DISC TRAY

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

### 23. CONNECTING

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause a product damage. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

24. LASER BEAM

Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

### 25. DISC

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

NOTE TO CABLE TV SYSTEM INSTALLER

This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be cor nected to the grounding system of the building, as close to the point of cable entry as practical.

Moisture will form in the operating section of the DVD/VCR if the unit is brought from gool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the DVD/VCR's performance will be

impaired.

To prevent this, let the DVD/VCR stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the DVD/VCR is exposed to the breeze from an air conditioner. In such cases, change the location of the DVD/VCR.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and other rights owners. Or home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the "STANDARD DEFINITION" output. If there are questions regarding our TV set compatibility with this model 525p DVD player, please contact our customer

- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of
- \* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.
- Certain audio features of this product manufactured under a license from Desper Products, Inc. Spatializer®, N-2-2 $^{\text{TM}}$  and the circle-in-square device are trademarks owned by Desper Products, Inc.
- Windows Media and the Windows logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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# Dubbing a tape onto a disc

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Dubbing a disc onto a tape.

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Error/Warning message list .....

Each applicable media are indicated using the symbol shown below.

| (N)       | : DVD-Video            | (O)       | : DVD-R                         |
|-----------|------------------------|-----------|---------------------------------|
| (S)       | : DVD-RW in VR mode    | 3O        | : Audio/Video CD and CD-R/CD-RW |
| NDEO      | : DVD-RW in Video mode | Q.O<br>WR | : Video tape                    |
| [⊗<br>RAM | : DVD-RAM              |           |                                 |

### Playback function

### A realistic, powerful, Movie Theater sound

When connected to Dolby Digital and DTS compliant devices, you can enjoy realistic, powerful surround sound.

### Playback the scene you want to see immediately

As DVD's do not require rewinding like video tapes, you can get to the scene you wish to watch immediately. A variety of search functions allow you to find the scene you wish to watch.

DVD-R

As thumbnail images are displayed in the title menu, you can find the title you want to play back quickly. Thumbnail image will not appear after finalizing and

### Video CD/SVCD/MP3/WMA/JPEG playback

Video CD/SVCD/MP3/WMA files can be played back Also, you can display JPEG files on the TV screen and enjoy them as a slide show.

### Progressive scan

This unit supports the progressive scanning system. If your TV is equipped with component video input jacks which support the progressive video input, you can enjoy high quality picture.

### Chase Playback

You can begin playback from the beginning of a program currently being recorded. You will find this function of great advantage on long programs, as you do not have to wait for the end of recording to begin playback.

### Recording function

### Timer recording

The timer recording system allows you to select the date, time and channel and record the desired programs. Up to 12 timer programs within a month can be

### One-touch Timer Recording (OTR)



The One-touch Timer Recording feature provides a simple and convenient way to make a timed recording.

### Editing recorded material without changing the original titles



You can create a playlist based on the original titles. The playlist won't affect the original titles. If you erase the playlist, the original titles remain. It is recommended to create and edit the playlist to prevent important titles from being erased accidentally

### Chapter mark



You can add (or delete) a chapter mark to (from) the original title. This function is useful when searching for the scene you wish to watch that you have marked with the Chapter mark function.

### Erasing scenes



You can erase an unnecessary scene from the created playlist or the original titles

### Combining titles

( O

You can combine several original titles or playlists to a separate playlist

### **Dubbing function**

# Dubbing a tape onto a disc or a disc onto a

With just this one unit, you can dub however you like, from video tape to disc, or from disc to video tape.

· Dubbing cannot be carried out when attempting to copy a "copy guarded" video tape or disc.

# Disc

### Handling discs

Removing the Disc from its case
Be sure to hold the disc by its edges.
Do not touch the surface of the disc.
Take the disc carefully from its case.
Do not get dirt on the surface of the disc.
Do not get dirt on the surface of the disc.
Do not drop or bend the disc.

Storing discs
Store the disc in the case to avoid any risk of scratches, dirt or damage.
Do not leave the disc exposed to direct sunlight or in hot or humid places.

# Cleaning discs Wipe the disc with a clean, dry cloth from the center outward toward the edges. Do not wipe the disc in a circular motion around the

center.
 Do not use liquid or aerosol cleaners.



DVD-RAM discs with cartridges are recommended for recording.

Two types of DVD-RAM discs are available: ones with cartridges and ones without cartridges. You can use either of them with this recorder, but the former ones are recommended.

In order to record highly detailed data, make sure the disc is clean. DVD-RAM discs with cartridges are easier to handle in this regard.

Do not open the cartridge shutter. The disc may not play, or may not be recorded or edited once it becomes dirty.

There are two types of DVD-RAM cartridges; removable (TYPE 2/4) and not removable (TYPE 1).

tridges; removable (TYPE 2/4) and not removable (TYPE 1). It is recommended you do not remove the disc even when you can. Refer to the instruction manual that comes with the disc if it is absolutely necessary to remove the disc. Some commercially available cartridge discs cannot be recorded or edited once the inside discs are removed.

removed.

To protect recorded contents
Slide the write-protect tab to "PRO-TECT" with something small enough.
The disc can play, but cannot be
edited or erased. Refer to the instruc-tions that come with the disc.

tons that come with the disc.

Notes on copyright

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

Discs which can be played back In this unit, use only discs that meet the standard, such as those bearing the below logo marks on the disc label surface. If you use a non-standard disc, we cannot guarantee playback. Even if such a disc can be played back, we cannot guarantee the image or sound quality The DVD logo is a registered trademark.

Media type DVD-Video DVD-RAM Ver.2.0 Ver.2.1 DVD-RW Ver.1.0 Ver.1.1 Ver.1.2 Ver.1.1CPRM support <u>DVD</u> DVD DVD-R Ver.2.0(Ver.2.0/4x/8x) Audio CD dose Video CD CD-R/CD-RW

This unit is designed to playback music Compact Discs (CD) that conform to the CD standard. CDs that contain (copy-restriction) signals to protect copyrights cannot be played back.

nals to protect copyrights cannot be played back.

Notes on DVDs and Video CDs
Because of problems and errors that can occur during the creation of DVD and Video CD software and/or the manufacture of DVD and Video CD osoftware and/or the manufacture of DVD and Video CD osoftware or of every DVD bearing the DVD logo and/or every Video CD bearing the CD logo. As one of the creators of DVD technology, Toshiba DVD players are manufactured using the highest standards of quality, and as a result, such incompatibilities are rare. If you happen to experience any difficulty playing a DVD or a Video CD on this DVDVCR, please feel free to call our Consumer Solution Center (see back cover page).

Solution Center (see back cover page).

Region management information
This unit is designed and manufactured to support the region management information that is recorded on a DVD disc. If the region number written on the DVD disc does not correspond to the region number of this unit, this unit cannot play that disc.

The region number of this unit is "1".
The unit will play DVD-Video discs marked with labels containing "1" or "ALL".

# Example:

Operating DVD-Video

• Some operations of DVD-Video may be prohibited by the manufacturer, or some operation methods or functions of the DVD-Video may be different from the description in this manual.

description in this manual.
If you attempt an operation that is prohibited by either the disc or the unit, a \*\* mark will appear on the TV monitor. For operations prohibited by the disc, see the information that came with the disc.
When the menu screen or the operation guide appears during disc playback, follow the displayed information.

tormation.

Discs which cannot be played back

The discs listed below cannot be played back in gen
eral. Even if one of these can be played back, it may
not be played back correctly. If a disc is played back by
mistake, extensively loud sounds may blow the speak
ers or may damage the hearing of those in hearing
range. Do not playback the discs listed below.

CDG, Photo-CD, CD-ROM, CD-TEXT, CD-EXTRA,
SACD, PD, CDV, DVD-ROM, DVD-RVRW, DVD
audio, etc.



8

- The below DVD-Video may not be played back.

   DVD-Video that do not have the region number "1" or "ALL".

   PAL or SECAM DVD-Video.

   Prohibited or business-use DVD-Video.

# CD-R/CD-RWs cannot be played back for the follow-

# CD-R/CD-R/Ws cannot be preyocation ing reasons. Compatibility of the disc and this unit. Compatibility of the disc and the recorder used. Unfinalized discs. Do not playback the following discs. Playback of these discs may cause a failure. Discs on which paper, labels or stickers are affixed. Discs that have sticky areas left by adhesive tape. Special-shaped discs. Discs on which video can be recorded

| to record video with this unit, use the discs below.  |            |  |
|---|------------|--|
| Media type  | Logo mark  |  |
| DVD-RAM Ver.2.0 Ver.2.1                               | RAM        |  |
| DVD-RW Ver.1.0 Ver.1.1 Ver.1.2<br>Ver.1.1CPRM support | <b>₽</b> ₩ |  |
| DVD-R Ver.2.0 (Ver.2.0/4x/8x)                         | DVD.       |  |

DVD-RAM

Use only DVD-RAM discs that comply with DVD-RAM standard Version 2.0 or 2.1.
The recorder cannot record on a disc formatted in any other standard. When using such a disc, initialize it by using the disc-format function of this recorder. The recorder may not record, dub, or edit some DVD-RAM discs, because they are edited/recorded with another manufacture's equipment or PC, condain a lander manufacture's equipment or PC, condain a londer manufacture's equipment or PC, condain a longer of the condition of the disc permits copying once. When there is no indication on the disc, copying allowed also for the Library Management database.

### DVD-RW

disc can be erased and used again about 1,000

The case can be elased and used again adout not times.

Only the VR mode can be used for Ver.1.0 discs. With Ver.1.1/1.2 discs, you can record by selecting the VR mode or Video mode.

When you record in the VR mode, you can repeatedly record and erase. By erasing unnecessary titles, you effectively increase remaining time.

When you record in the Video mode, you can record until the disc becomes full.

When you use the Video mode, you can newly record on the disc by formatting the disc. However, if the disc is formatted, all the recorded contents will be erased.

YOU-R
You can record on the disc only in the Video mode.
You can record until the disc becomes full.
Finalizing the discs allows playback on other DVD
players. However, the finalized discs can no longer

e recorded.
iscs can be recorded to repeatedly until they are nalized.

NOTES: There are some players that cannot playback discs that were recorded with this unit. We cannot guaran-

that we're recorded with a tim. We cannot guarantee the playback with other units.

This unit cannot record on DVD-RAM/RW/R discs that are 8 cm in diameter.

This unit cannot record on CD-RW/R.

Inis unit dame.

Recording format

This unit has two modes for formatting discs for record-

This unit has two modes for formatting discs for recording: VR mode and Video mode. When a blank, new disc is loaded into this unit, the automatic format function starts to format the disc. (For the disc format setting in this step, see page 27.)

VR mode

This mode can be used for DVD-RAM/-RW. In this mode, the discs can be recorded and edited

repeatedly. The disc recorded in this mode can be played back with other DVD-RW-compatible players. When a Ver.1.1 CPRM or Ver. 1.2 disc is used, you can record a "Copy Once" program (see page 53).

Video mode
• This mode can be used for DVD-R and DVD-RW Ver.1.1/1.2).

When you finalize the disc after recording, the disc ecorded with this unit can be played back with other

recorded with this unit can be piayed place with our DVD players. Recording, editing or playback of an unfinalized disc can be done only with this unit. However, there are some limitation to editing operations. In this mode, you cannot record a "Copy Once" program see page 30 you cannot record a "Copy Once" program see page 30 you cannot record a "Copy Once" program of a bilingual broadcast, only one of the audio modes can be recorded. You have to select it. Format modes that can be used with each disc The usable format depends on the media type as sh

| III the below table.     |            |   |  |
|--------------------------|------------|---|--|
| Media type               | Format     | Available functions                                 |  |
| DVD-RAM<br>(Ver.2.0/2.1) | VR mode    | Playback, recording and editing (Original/playlist) |  |
| DVD-RW<br>(Ver.1.0)      | VR mode    | Playback, recording and editing (Original/playlist) |  |
| DVD-RW<br>(Ver.1.1 and   | VR mode    | Playback, recording and editing (Original/playlist) |  |
| 1.2)                     | Video mode | Playback and recording<br>Editing (with limitation) |  |
| DVD-R<br>(Ver.2.0/4x/8x) | Video mode | Playback and recording<br>Editing (with limitation) |  |



### Title/Chapter/Track

ITITE/Chapter/ITACK
A DVD-Video has large partitions called "Titles", and smaller partitions within them called "Chapters". A music CD has other partitions called "Tracks". A number is allotted to each partition and these numbers are called "title numbers", "chapter numbers" or "track numbers".

| ers".         | DVD DISC         |           |         |
|---------------|------------------|-----------|---------|
| TITLE1        |                  | TITLE2    |         |
| CHAPTER 1 CHA | PTER 2 CHAPTER 1 | CHAPTER 2 | CHAPTER |
| 1 to          |                  | V R       |         |

| -       |             | Audio-CD |         |         |
|---------|-------------|----------|---------|---------|
| TRACK 1 | TRACK 2     | TRACK 3  | TRACK 4 | TRACK 5 |
| ∼וומו   | <b>ກ</b> ກ∼ | ~دادا    | ~الدر   | лл∼     |

When recording in the VR mode One-time recording is set to 1 title (1 chapter). However, if you stop recording temporarily or erase scenes by editing, the chapter will automatically be partitioned. The interval between chapters can be specified. (See

When recording in the Video mode One-time recording is set to 1 title. In recording, chapters are set automatically. The interval between chapters can be specified. (See page 31.)

### NOTES:

The title, chapter and track are numbered, but some

The title, chapter and track are numbered, but some discs may not record the numbers.

Recording on DVD-R/RW in the Video mode is a new standard approved at the 2000 DVD forum. Conformity to this standard varies with each DVD player manufacturer. Some models of DVD player or DVD-DVD discount of the property of the pr

ROM drive, therefore, will not playback recorded vid-

# Disc playback in other players

DVD-RW/R recorded in this unit can be finalized. The disc can be played back in other players that can playback DVD-RW and DVD-R.

For more information on finalization, see "FINALIZE" in "Setting the disc" (page 27).

When recording in the VR mode
Even if a DVD-RW disc recorded in the VR mode is
finalized, you can record or edit by cancelling the
finalization. (See "UNDO FINALIZE" on page 28.)
When you playback the disc with another player, make
sure that the DVD player supports DVD-RW.

When recording in the Video mode When a disc recorded in the Video mode is finalized, it cannot be recorded onto any more. Therefore, before finalization, be sure to perform all desired recording. After finalization, a title list that can be used by the DVD player is automatically created.

### NOTES:

NOTES:

1 The finalization process may require from a few minutes up to 1 hour depending on the disc type and the amount of free space on the disc.

A DVD-RW ver.1.1/1.2 recorded in the Video mode cannot be recorded or edited after finalization, but if you format the disc by erasing all the content, you can again record on this disc.

A finalized disc may not play because of the condition of the DVD or the compatibility with the player used for playback.

Some players may not playback the discs recorded with this unit. We cannot guarantee the playback using other players.

On video CDs
This DVD supports Video CDs equipped with the
PBC (Version 2.0) function. (PBC is the abbreviation
of Playback Control.) You can enjoy two playback
variations depending on types of discs.

(Version 1.1)
Sound and movie can be played on this DVD in the

In addition to operation of a Video CD not equipped

Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of this DVD/VCR, including, without limitation, any one of the

Failure to record contents intended to be recorded

r-Palure to record contents intended to be recorded by the consumer.

Failure to edit contents as intended by the consumer.

When a DVD-RAM disc or a DVD-R disc created on this recorder is used (e.g., insertion, playback, recording or editing) in another DVD player, recorder or personal computer drive.

When a DVD-RAM disc or a DVD-R disc that is used in the money of secretal or the order of the order of

computer drive is used in this recorder

personal computer drives

9

Video CD not equipped with PBC fund

video CD equipped with PBC function (Version 2.0)

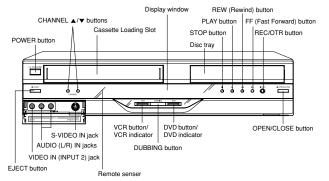
In addition to operation of a Video CD not equippe with the PBC function, you can enjoy playback of interactive software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

in the manner described in the immediately preceding bullet point is used again in this recorder. When a DVD-RAM disc or a DVD-R disc that was recorded in another DVD recorder, or in a personal

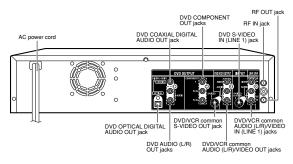
Discs recorded in this recorder may not operate as expected on other DVD players, recorders or

# Parts and functions

\* This unit has a door on the front panel. Please open it to access the S-VIDEO jack and the AUDIO (L/R)/VIDEO IN (INPUT 2) jacks.



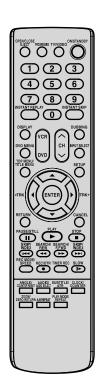
Rear



12

### Parts and functions

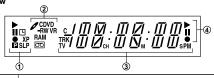
### Remote control



|  | Pa   | age   |
|--|--|---|
| Opens or Closes the tray.  |  | 33  |
| Ejects the cassette tapes  |  | 48  |
| Activates the progressive scanning mode.   |  | 47  |
| Select to operate TV/VIDEO   | 22,  | 55  |
| Turns power on/off.  |  | 22  |
| Direct channel selection of TV   |  | 54  |
| Setting input  | 37.  | 74  |
|  |  | 25  |
|  |  | _   |
|  |  | 38  |
|  | 37   | _   |
|  |  | _   |
| Displaye veri or BVB operation states.   |  | <u> </u>  |
| · · · · · · · · · · · · · · · · · · ·  |  | 78  |
|  | 3  | 54  |
| Copies VCR to DVD or DVD to VCR.   |  | 77  |
| Displays the menu of the DVD disc.   |  | 39  |
| Switches the connected TV to external inputs.  |  | 79  |
| Selects titles of a DVD disc. 34, 39,  | 42,  | 63  |
| Display the setup menu   |  |   |
| Cursor buttons 23, 33,   | 37.  | 57  |
|  | .,   | 50  |
| Cursor buttons   | 33.  | 37  |
| Ontion selection in the menu 23 33   | 37   | 57  |
|  |  |   |
|  | ,  | 59  |
|  |  | 25  |
|  | 36   | _   |
|  |  | _   |
|  | ,  | _   |
|  |  | 36  |
|  | 011  | 51  |
| <u>'</u>   |  | _   |
|  |  |   |
|  |  |   |
|  |  |   |
|  |  |   |
|  |  |   |
| Sets the unit to start recording at a preset time  |  | 59  |
| Sets the unit to start recording at a preset time<br>Slow motion playback  |  | 59<br>50  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.   |  | 59<br>50<br>40  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.<br>Resets the counter to 00H 00M 00S.   |  | 59<br>50  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.   |  | 59<br>50<br>40  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.<br>Resets the counter to 00H 00M 00S.   |  | 59<br>50<br>40<br>51  |
| Sets the unit to start recording at a preset time Slow motion playback Changes playback angle. Resets the counter to 00H 00M 00S . Switches sound between mono and stereo.   |  | 59<br>50<br>40<br>51<br>61  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.<br>Resets the counter to 00H 00M 00S .<br>Switches sound between mono and stereo.<br>Changes the language of the DVD.   |  | 59<br>50<br>40<br>51<br>61<br>41  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.<br>Resets the counter to 00H 00M 00S .<br>Switches sound between mono and stereo.<br>Changes the language of the DVD.<br>Selects sub  |  | 59<br>50<br>40<br>51<br>61<br>41  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.<br>Resets the counter to 00H 00M 00S .<br>Switches sound between mono and stereo.<br>Changes the language of the DVD.<br>Selects subtitles of the DVD disc.<br>Digital AUTO TRACKING  | 36,  | 59<br>50<br>40<br>51<br>61<br>41<br>41<br>50  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.<br>Resets the counter to 00H 00M 00S .<br>Switches sound between mono and stereo.<br>Changes the language of the DVD.<br>Selects sub  | 36,  | 59<br>50<br>40<br>51<br>61<br>41<br>41<br>50<br>51<br>40  |
| Sets the unit to start recording at a preset time Sitomotion playback Changes playback angle. Resets the counter to 00H 00M 00S . Switches sound between mono and stereo. Changes the language of the DVD. Selects subtitles of the DVD disc. Digital AUTO THACKING Changes the front panel display mode. Zoom (for DVD/Video CD) Stops the tape when the counter reaches 00H 00M. | 36,  | 59<br>50<br>40<br>51<br>61<br>41<br>41<br>50<br>51<br>40  |
| Sets the unit to start recording at a preset time<br>Slow motion playback<br>Changes playback angle.<br>Resets the counter to 00H 00M 00S .<br>Switches sound between mono and stereo.<br>Changes the language of the DVD.<br>Selects sub  | 36,  | 59<br>50<br>40<br>51<br>61<br>41<br>41<br>50<br>51<br>40  |
|  | Ejects the cassette tapes Activates the progressive scanning mode. Select to operate TV/IDEO Turns power on/off. Direct channel selection of TV Setting input Entering a password Repeats playback between the section played 10 seconds before and present section. Skips commercial breaks. Displays VCR or DVD operation status. Switches to operation between VCR and DVD. 33.4 Channel selection for the connected TV or VCI Copies VCR to DVD or DVD to VCR. Displays the menu of the DVD disc. Switches the connected TV to external inputs. Selects titles of a DVD disc. Displays the menu of the DVD disc. Switches the connected TV to external inputs. Selects titles of a DVD disc. Displays the menu of the DVD disc. Surface the properties of the properties of the DVD disc. Displays the setup menu Cursor buttons 23, 33, Manual tracking in the playback mode for VCR Cursor buttons Option selection in the menu Closes the menu Closes the Timer recording program. Cancels input data in the setting mode. Still picture/Recording pause on/off Playback Stop 33, Skips chapters in the forward or reverse direct Searches for the INDEX mark of a tape Rewind/Review playback 36, Fast Forward-Forward search playback 36, Selects the recording mode. | Opens or Closes the tray Ejects the cassettle tapes Activates the progressive scanning mode. Select to operate TV/IDIEO 22, Turns power or/off. Direct channel selection of TV Setting input 37, Entering a password Repeats playback between the section played 10 seconds before and present section. Skips commercial breaks. 37, Displays VCR or DVD operation status. 37, Displays VCR or DVD operation status. 37, Displays VCR or DVD Operation status. 38, Switches to operation between VCR and DVD. 33, 49, 77. Channel selection for the connected TV or VCR Copies VCR to DVD or DVD to VCR. Displays the menu of the DVD disc. Switches the connected TV to external inputs. Selects titles of a DVD disc. 34, 39, 42, Display the setup menu 23, 33, 37, Manual tracking in the playback mode for VCR Cursor buttons 33, Cursor buttons 33, Close the menu window. 23, Deletes the Timer recording program. Cancels input data in the setting mode. Still picture/Recording pause on/off 36, Disphyaback 33, 49, Skips chapters in the forward or reverse direction Searches for the INDEX mark of a tape Rewind/Review playback 36, 49, Fast Forward/Forward search playback 36, 49, |

# Parts and functions

### Display window



| _   |                | In the second se |
|-----|----------------|--|
| No. | Display        | Description  |
| ①   | <b></b>        | Lights during video tape playback.   |
|     | II             | Video tape is temporarily stopped.   |
|     | •              | Lights during video tape recording.  |
|     | P              | Progressive scanning mode.   |
|     | <u> </u>       | Timer recording display.   |
|     | XP/SP/LP/SLP   | 4 DVD recording modes. XP, SP, LP or SLP can be selected in turn by pressing the REC MODE/SPEED repeatedly.  |
|     | SP/SLP         | 2 VCR recording modes. SP or SLP can be selected in turn by pressing the REC MODE/SPEED repeatedly.  |
| 2   | <b>/</b> CD    | Appears when a CD is inserted.   |
|     | <b>Ø</b> CD-R  | Appears when a CD-R is inserted.   |
|     | <b></b> CD-RW  | Appears when a CD-RW is inserted.  |
|     | <b>/</b> DVD   | Appears when a DVD-Video is inserted.  |
|     | <b>/</b> DVD-R | Appears when a DVD-R is inserted.  |
|     | <b>DVD-RW</b>  | Appears when a DVD-RW is inserted.   |
|     | <b>Ø</b> RAM   | Appears when a DVD-RAM is inserted.  |
|     | VR             | Appears when a DVD-RW in VR mode is inserted. When the disc is set to video mode, VR does not appear.  |
|     | <u>6</u>       | Video tape is in the unit.   |
| 3   | 10:00          | Clock display (Colon [:] flashes).   |
|     | 01н00м00s      | Counter display in hour/minute/second for VCR/DVD, minute/second for CD.   |
|     | C 36CH         | Cable TV channel display.  |
|     | 2CH            | TV channel display.  |
|     | TRK 002        | Track number display for CD.   |
|     | TV             | Appears when the tuner built into this unit is not selected. When you press TV/VIDEO disappears.   |
|     | PM             | Display for afternoon (out in the morning).  |
|     | L1/L2          | The external input channel (L1 or L2) display.   |
|     | Err            | Error display.   |
| 4   | <b>•</b>       | Lights during playback of DVD and CD. Flashes in auto resume.  |
| -   | ÎI .           | DVD or CD is temporarily stopped.  |
| İ   | •              | Lights during DVD recording.   |

Some discs may not playback correctly, or chapter number, playback time, etc may not be displayed

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### Parts and functions

serting Batteries into the Remote Control:

Open the battery compartment cover in the direction of the arrow.

2 Install two "AAA" batteries, paying attention to the polarity diagram in the battery compart-

ment









3 Replace the compartment cover

- Notes:

  Be sure to use AAA size batteries.

  Dispose of batteries in a designated disposal area.

  Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.

  If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with positions.

- If the femilier common does not operate contectly, or if the operating range becomes reduced, replace batteries with new ones.
   When necessary to replace batteries in the remote control, always replace both batteries with new ones.
   Never mix battery types or use new and used batteries in combination.
   Always remove batteries from remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

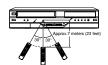
# Remote control basics • Press ON/STANDBY to turn the DVD/VCR on or off.

- Press CH→STANDBY to turn the DVD/VCR on or off.
   Press CH ~ or CH ~ to move through the channels one channel at a time.
   The ▲/Y/﴿/ ▶ are also used to navigate on-screen menu system.
   You can directly access specific channels using numeric keys.
   Each press of DVD or VCR, switches the screen between the DVD screen (DVD mode) and the VCR screen (VCR mode).

### Operation

- Aim the remote control at the remote sensor and press control buttons to
- operate.

  Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of approximately 7 meters (23 feet).



### **Power Source**



Polarized AC Cord Plug (One blade is wider than the other.)

TO USE AC POWER SOURCE
Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

NOTES:

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- NOTES:

  Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.

  If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.

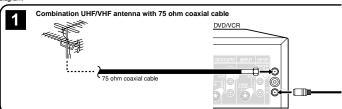
  If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the AC outlet and plug it back in. The unit should return to normal operation.

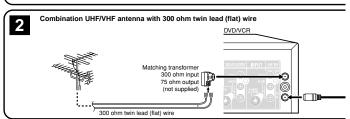
  If the AC cord plug is plugged in for the first time, wait for approximate 3 minutes before operating the unit.

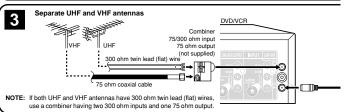
If you are using an antenna system, follow these instructions. If you are a Cable TV subscriber, skip ahead to page 18 for the proper connections.

### ANTENNA TO DVD/VCR CONNECTION

The DVD/VCR must be connected "between" the antenna and the TV. First, disconnect the antenna from the TV and connect it to the DVD/VCR. Then connect the DVD/VCR to the TV. Below are 3 common methods of connecting an antenna system to a DVD/VCR. Find the type of antenna system you are using and follow the connection disconnection.





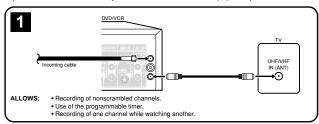


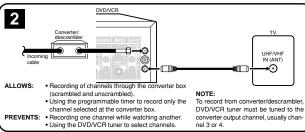
- NOTES: A clear picture will not be obtained by the DVD/VCR unless the antenna signal is good. Connect the antenna to the DVD/VCR properly.
  - For better quality recording, an indoor antenna or a telescopic antenna is not recommended. The use of an outdoor type antenna is required.
     If you are not sure about the connection, please refer to qualified service personnel.

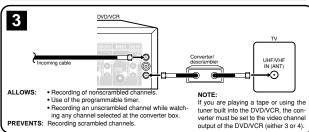
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# Cable TV connections

Many cable companies offer services permitting reception of extra channels including pay or subscription chan-nels. This DVD/VCR has an extended tuning range and can be tuned to most cable channels without using a cable company supplied converter box, except for those channels which are intentionally scrambled. If you subscribe to a special channel which is scrambled, you must have a descrambler box for proper reception







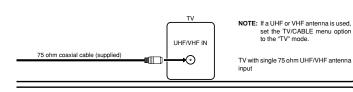
NOTE: Whenever a converter/descrambler box is placed before the DVD/VCR, you must tune the DVD/VCR to the

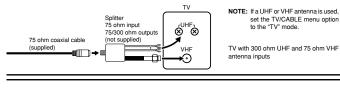
# Antenna connections

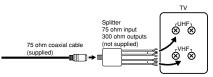
### DVD/VCR TO TV CONNECTION

After you have connected the antenna to the DVD/VCR, you must connect the DVD/VCR to the TV. Below are 3 common methods of connecting your DVD/VCR to a TV. Find the type of TV you are usi the connection diagram.

This DVD/VCR has a single 75 ohm output for connection to a TV. If your TV has separate UHF and VHF antenna inputs (numbers 2 and 3 below), use a splitter to connect the DVD/VCR to the TV for UHF and VHF reception.







NOTE: If a UHF or VHF antenna is used, set the TV/CABLE menu option to the "TV" mode.

TV with 300 ohm UHF and 300 ohm VHF antenna inputs

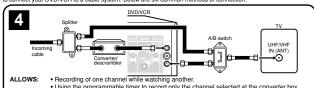
17

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability

# Cable TV connections

IMPORTANT: Make sure the TV/CABLE menu option is set to the "CABLE" mode.

This DVD/VCR cannot receive scrambled programs since it does not contain a descrambler. In order to receive scrambled programs, your existing descrambler must be used. Descrambler boxes are available from cable companies. Consult your local cable company for more information concerning connection to their descrambler equipment. There are many ways to connect your DVD/VCR to a cable system. Below are six common methods of connection.

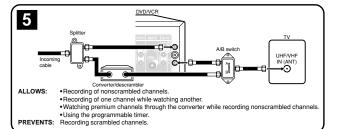


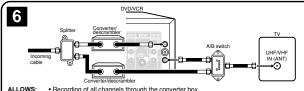
Using the programmable timer to record only the channel selected at the converter box.

Recording of all channels through the converter box.

Watching scrambled channels while recording another channel.

Using the DVD/VCR tuner to select channels.





. Recording of all channels through the converter box

Recording a scrambled or unscrambled channel while watching another (scrambled or unscrambled) channel.

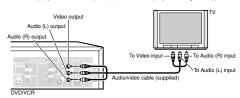
Using the programmable timer to record only the channel selected at the converter box

PREVENTS: Using the DVD/VCR tuner to select channels.

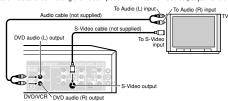
The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and othe materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

The exact arrangement you use to interconnect various video and audio components to the DVD/VCR is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

The unauthorized recording, use, distribution, or revision of television programs, videotapes by DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability. Connect to a TV with Audio/Video output
You can enjoy playback by connecting the unit to a TV.
Connect the unit to a TV equipped with audio input (L/R) and video input jacks using the supplied audio/video cable.

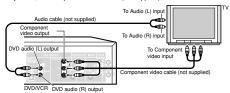


Connect to a TV with S-Video output
If your TV has an S-Video input, you can get higher quality by connecting it with the S-Video output of the unit using the S-Video cable instead of connecting the video input of the TV to the video output jack of the unit.



Connect to a TV with Component video output (for DVD/CD playback)

Video onbut the binhest qualify nichine by connecting the unit's component video out jacks to the component You can enjoy the highest quality picture by connecting the unit's comp video input jacks of your TV, with component video cables (not supplied)



- When connecting to a TV using the video or S-Video jack, make sure that the progressive indicator on the display window is not lit. If it is lit, the video and S-Video outputs do not feed the correct signals and you cannot see any picture. To turn off the progressive indicator, make the progressive scanning mode inactive (see page 47).
- 41).
  If the component video input jacks on a TV are the BNC type, use an adapter to convert the RCA jacks from the component video cables to BNC (not supplied).

20

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SETUP

Ö

SEARCH SEARCH SKIP/

RECOTR TIMER REC SLOW

OANGLE! AUDIO: SUBTITLE! CLOCK!

When shipped from factory, the video channel is set to CH 3.

If the unit does not operate prop-erly, or there is no key operation from the unit and/or the remote control: Static electricity, etc., may

affect the operation. Disconnect

the AC power cord once, then con-

ZOON PLAY MCOL

NOTES:

nect it again.

# Auto clock setting / Setting the video channel

# Auto clock setting

You must connect the antenna or cable before connecting the AC cord to the power source.

Wait at least 3 minutes with the power turned off, after the antenna or valid a least of illumbes with title power further or, after the attention of cable is connected, for the auto clock feature to activate.

After the clock is set automatically, you may have to set the time zone and daylight saving time. (See page 26.)

Press ONSTANDBY to turn on the DVD/VCR after the auto clock op-

eration completed.

- When shipped from factory, the "AUTO CLOCK" option is set to "ON"
- position.

  If you turn the DVD/VCR on during auto clock setting, the clock is not
- · Depending on the reception condition, auto clock setting may take
- After a power failure or disconnection of the power plug, the clock will be lost. In this case, wait 3 minutes before turning the DVD/VCR on.
- With cable box connection, if the auto clock setting is unsuccessful, select the PBS channel carrying the XDS information, then turn the DVD/NCR off. After 3 minutes, turn the DVD/NCR off.
  If the clock is not set automatically, set the clock manually. (See page

### Setting the video channel

To view playback of a recorded tape or DVD disc, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel).

When a TV is connected with the 75 ohm coaxial cable only:

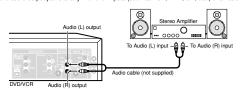
- Press and hold 3 or 4 on the remote control for 3 seconds in the standby mode to select CH 3 or 4. The selected channel number will flash on the display for about 4 seconds.
- Turn ON the TV and set to CH 3 or 4 to correspond with the chan-
- 3 Press ON/STANDBY to turn on the DVD/VCR.
- 4 Press TV/VIDEO to select the VIDEO position. The TV indicator will disappear in the display.
- Select any channel to receive a TV station in your area. The channel number will appear on the screen for about 4 sec-

### For a push-button TV tuner

For a push-button 1 v tuner If CH 3 or 4 corresponding to the video channel cannot be tuned on your TV, proceed as follows: set the VCR 3/4 channel selector and the TV to CH 3 or 4, playback a prerecorded tape and tune the TV to receive a sharp color picture from the video cassette recorder. Refer to your TV owner's manual for details

# Connections with the TV or audio component

Connect to a stereo amplifier with audio output
You can enjoy high quality audio by connecting the audio output to your amplifier.
Connect the audio output jacks to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier.



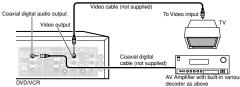
Connect to an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround as follows, you can enjoy the various audio systems such as Dolby Digital and DTS by using the optical or coaxial digital output.

Use this connection to connect an

AV amplifier with built-in \*Dolby Digital decoder
 AV amplifier with built-in \*DTS decoder

You may connect to a TV with a component video cable (not supplied) or S-Video cable (not supplied) instead of a video cable (not



Connecting the optical digital cable

You may connect to an AV Amplifier with an optical digital cable (not supplied) instead of a coaxial digital

When you connect the optical digital cable (not supplied), remove the dust protection cap from the rear panel. When not using the optical digital cable, attach the dust protection cap to protect against dust.

- The DVD OUTPUT jacks (OPTICAL, COAXIAL, AUDIO L/R and COMPONENT) are useful only for DVD section. The VHS signal is output only from the S-Video output jack, composite jacks (DVD/VCR OUT-
- PUT) and UHF/HF OUT.

  When you make the connections above, do not set DOLBY DIGITAL to DOLBY DIGITAL or DTS to ON on the AV amplifier. If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.
- Speakers to be darlaged.

  Caution for the optical digital audio output connector: Do not connect to an amplifier (with an optical digital input connector) which does not contain a Dolby Digital or DTS decoder. Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.

  DTS audio will be output only from the COAXIAL or OPTICAL output. To hear DTS audio, DTS-Decoder is
- When playing DTS-encoded CDs, only noise will be heard from the speakers or analog stereo outputs.
- Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit. The optical or coaxial digital output jack output sounds in the bitstream.

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# SETUP MENU

The SETUP MENU consists of several menus where you can make various settings concerning language, audio functions, and images. In addition, this menu includes a clock, channel and other things that require setting just after purchase.

For details of each menu, see the corresponding section in this chapter.

# Using the SETUP MENU

The following example shows the basic setting procedure of the SETUP MENU. The remote control keys that operate the SETUP MENU are displayed at the bottom of the screen



Press SETUP while the DVD or video tape is

The SETUP MENU screen will appear



2 Press ▲ or ▼ to select the desired menu and press

ENTER.
The submenu screen of the selected menu will ap-



3 Press ▲ or ▼ to select the desired submenu and press ENTER.
The screen for the selected submenu will appear.



4 Press ▲ or ▼ to select the desired item you want, and press ENTER. Selectable items will be listed.



5 Press ▲ or ▼ to select the desired item and press

ENTER.
This completes the setting procedure.
To return to the previous screen, press RETURN.
To close the SETUP MENU, press SETUP.

For items that require different operations from the basic setting procedure, the setting procedure is de-scribed in each individual section.

The item which is indicated by blue color cannot be

selected.

# Setting the language

You can choose the language of the menu screen, DVD menu. DVD audio and subtitles.

### Preparation:

- Turn ON the TV and set it to the video input mode. Select "LANGUAGE" from "SYSTEM SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



### OSD LANGUAGE

You can set the language for on screen display.
Select "OSD LANGUAGE" and select the language from

Selectable languages: ENGLISH, FRANCAIS, ESPANOL

### DVD MENU

When several menu languages are recorded on a DVD you can select the language to be used for the DVD

Select "DVD MENU" and select the language from the

# Selectable languages: ENGLISH, FRANCAIS, ESPANOL

The selected language is the first priority menu lan-

### OTHER

If you want to select another language, before pressing ENTER, input the language code by using the numeric keys. (See the Language code list on page 82). Then press ENTER.

If you input a wrong number, press CANCEL.

### AUDIO

When several audio languages are recorded on a DVD, you can select the audio language to be played back. The selected language remains in effect after the power is turned off or the disc is replaced.

Select "AUDIO" and select the audio language from the

# Selectable languages: ENGLISH, FRANCAIS, ESPANOL

The language you have selected will play if it is re-

### ORIGINAL

The unit will select the first priority language of each

### OTHER

If you want to select another language, before pressing ENTER, input the language code by using the numeric keys. (See the Language code list on page 82). Then press ENTER.

If you input a wrong number, press CANCEL

### NOTE:

If the selected language is not recorded on the disc. the first-priority language is selected.

When several subtitles languages are recorded on DVD, you can select the language to be used for the subtitles. The selected language remains in effect after the power is turned off or the disc is replaced.

Select "SUBTITLE" and select the menu language from

Selectable languages: ENGLISH, FRANCAIS, ESPANOL The subtitle is displayed with the selected language if it is recorded on the disc.

If you want to select another language, before press-ing ENTER, input the language code by using the numeric keys. (See the Language code list on page 82). Then press ENTER.

If you input a wrong number, press CANCEL.

- · The unit will automatically select the same lan-
- guage in the AUDIO setting.
  When the unit selects the same language as the AUDIO setting, the subtitles will not appear during playback.
- When you do not use the same language as the AUDIO setting, the subtitles will appear during

Subtitles do not appear.

If the selected language is not recorded on the disc, the first-priority language is selected.

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# Setting the clock

but it can also be set manually. The clock can be set for daylight saving time and time zone.

Turn ON the TV and set it to the video input mode.
Select "CLOCK" from "SYSTEM SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



### CLOCK (manually)

You can manually set the date, year and present time

with the remote control.

Ex.: Setting the clock to "10:20AM" March, 30th, 2005.

Select "CLOCK" and press ENTER.

### 01/01/05 12:00AM

- 2 Select the desired items using ◀or ▶ (month, date, year, hour, minute and AM/PM), then press ENTER.
- 3 Press ▲ or ▼ to set the value of the selected item. 03/30/05 10:20AM
- Repeat steps 2 and 3 to set the date, year and present time, and press ENTER. The SETUP MENU will close. This completes clock time setting

**AUTO CLOCK** You can automatically set the clock by turning "ON" the

AUTO CLOCK function.

When you want to set the auto clock function to "OFF", select "AUTO CLOCK", press ENTER and select "OFF". For more information see page 22.

### STANDARD TIME (Time zone)

In the rare event that you live within the broadcast range of two stations in two different time zones, the DVD/VCR may recognize the wrong station for the auto clock set. To correct the situation:

Select "STANDARD TIME" and select the time zone from

### Selectable time zones and correction times

ATLANTIC: GMT – 4 hours (GMT: Greenwich Mean Time)

EASTERN: GMT - 5 hours GMT – 6 hours GMT – 7 hours GMT – 8 hours CENTRAL: MOUNTAIN: PACIFIC: GMT – 9 hours GMT – 10 hours ALASKA.

AUTOMATIC: AUTO SET

### NOTES:

- When shipped from the factory, the "STANDARD TIME" is set to "AUTOMATIC".
- After making the auto clock setting, in some cases the clock may display another time zone. You can correct the clock by selecting your time zone setting above.
- When the clock is not set or you set the clock manually, the time zone setting is not available.

### DAYLIGHT SAVING TIME

You can set the clock to daylight saving time automatically or manually.

To select daylight saving time, select "DAYLIGHT SAV-ING TIME" and select "ON", while to cancel the day-light saving time, select "OFF".

For manual setting (forward 1 hour) For manual setting (back 1 hour) AUTOMATIC: For automatic setting (read XDS in the

### NOTES:

- When you want to set daylight saving time, on the first Sunday in April you set it to "ON", and on the last Sunday in October you set it to "OFF".
- When shipped from the factory, the "DAYLIGHT SAV-ING TIME" option is set to "AUTOMATIC".
- When the clock is not set, the daylight saving time setting is not available.
   When there is no daylight saving time in your area, always select "OFF".

# Setting the parental control

Some discs are specified as not suitable for children. This unit can prevent playback of such discs.

 Turn ON the TV and set it to the video input mode.
 Select "PARENTAL" from "SYSTEM SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



### Selecting parental control

Select "PARENTAL" and select the parental control level

Parental control is turned off Adult discs and general discs (R-rated discs included) cannot be played back. Level 2 to 3: Adult discs and R-rated discs cannot

Level 2 to 3: Adult discs and R-rated discs cannot be played back.

Level 4 to 7: Adult discs cannot be played back. 
(Level 4 to 7 discs contain content children and 4 not younger may not see.)

Level 8: All discs can be played back without

restriction.

Select from level 1 to level 8. On a scale of 1-8, "1" is the most restrictive

### To lock the selected parental control level

- 2 Use the numeric keys to input a 4-digit pas If you input a wrong number, press CANCEL.
   Be sure to remember this number!
- 3 Press ENTER.

change to

### To cancel the locked parental control level

- 1 Select "PASSWORD" shown in step 1 of the above section and use the **numeric keys** to input the password.
- 2 Press ENTER.

The locked mark "a" will change to an unlocked mark "a".

Then, you can change the parental control level, or enter a new password

### NOTES:

- The selected level will apply to operations executed after this.

- after this.

  The unit cannot restrict playback of some discs.

  Some discs may not be encoded with specific rating level information through its disc jacket says 'adult'.

  Parental control will not work with those discs.

  If you lorget your password, open the disc tray; iff there is a disc inside then remove it and discs the tray. To reset the code press and and old STOP on the remote control, then press and hold STOP on the front panel at the same time. The On-Screen Display will show 'PARIENTAL UNLOCK'. You can now set a

### Temporarily cancelling parental control

Parental control can temporarily be cancelled with some

- 1 Playback a DVD. (See page 33.)
- 2 If the DVD disc has been designed to temporarily cancel the rating level, the screen that follows the "READING" screen will change. If you select "YES" with the ENTER, the message "YOUR DISC EXCEEDS THE PARENTAL CONTROL LEVEL 1."(e.g.) will then appear.



If you wish to cancel the set rating level temporarily, select "PARENTAL CONTROL LEVEL" with ▲ or ▼, then press ENTER. If the password has been selected, the password input screen will appear. Alternatively, if the password has not been set, play-back will commence. If you don't know (or have forgotten) the password, select "CANCEL PICTURE".

The setting screen will disappear. Press OPEN/

The setting screen will disappear. Press OPEN/ CLOSE to remove the disc.

- 4 Use the numeric keys to input the password To interrupt the input process, press RETURN.
- 5 Press ENTER.
- 6 Playback will commence if the entered password

NOTE: This temporary cancellation of the rating level will re-main active until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically.

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# Setting the disc

You can format, protect, or finalize a disc.

Turn ON the TV and set it to the video input mode. Select "DISC SETUP" from "SYSTEM SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



# REFORMAT 🔘 💿



You can format a recorded DVD-RAM/RW.
Check the content of the disc before format. If you format the disc, the recorded content of the disc will be

To format a disc in the Video mode, select "REFOR-MATAS DVD VIDEO", and to format it in the VR mode, select "REFORMAT AS DVD VR". You cannot select "REFORMAT AS DVD VIDEO" when DVD-RAM inserted. The screen below will appear.



When you select "START" and press ENTER, format will start. The screen below will appear



When you select "CANCEL" and press ENTER, the DISC SETUP screen will appear.

- You cannot format Ver. 1.0 DVD-RW and DVD-R.
- You cannot format a disc if the disc protection is "ON".

  In such a case, be sure to cancel the disc protection
- (see page 28) before format. You cannot format a DVD-RAM in the Video mode.



NEW DISC FORMAT sed DVD-RW disc, the disc is autof you insert an unu natically formatted

matically formatted.

If you use the DVD-RW (Ver.1.1/1.2), you can select the mode to be used for automatic format. Select "NEW DISC FORMAT" and select the mode from the list below.

VR: Format the disc in the VR mode.
VIDEO: Format the disc in the Video mode.

When you insert an unused disc, the following mes-NEW DISC FORMAT

CANCEL



When you select "CANCEL" and press **ENTER**, the normal TV screen will appear.

# If a recorded disc has scratches or contamination on it, the "NEW DISC FORMAT" screen may appear. If this happens, select "CANCEL".

FINALIZE

To play a DVD disc recorded on this unit you must finalize the disc to insure compatibility with other DVD players. In addition if you are using a DVD-RW disc you must record in Video mode.

When "FINALIZE" is selected, the screen below will





When you select "CANCEL" and press ENTER, the DISC SETUP screen will appear

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### NOTE:

When you select "START" and press ENTER, finalization will start. The screen below will appear.

# Setting the disc / Other (SYSTEM SETUP)

- During the finalization the cursor will move repeatedly When the finalization finished, "DISC FINALIZED" will
- The finalization process may require a few minutes to about 1 hour according to disc type or the amount
- of free space on the disc.
  You can record or edit a finalized DVD-RW (in VR mode) by cancelling the finalizing, but you cannot do these operations with a DVD-RW (Video mode), or with a DVD-R.
- with a DVD-H.

  You cannot playback a disc recorded on VR mode on a unit that does not support DVD-RW.

  Even if you finalize a disc in the Video mode, the disc cannot be played back in some DVD players.
- · A DVD-R disc cannot be named after it is finalized.

### PROTECT DISC

You can protect a disc to prevent the content recorded on it from being erased, edited or re-recorded. Only DVD-RAM and DVD-RW (in VR mode) can be

protected.
Select "PROTECT DISC" and select "ON" to protect the

To cancel the disc protection, select "OFF"

### UNDO FINALIZE

You can cancel the finalization of a finalized DVD-RW (in VR mode).

ou cannot cancel the finalization for discs other than above. You can record or edit on a disc whose finaliza-

Select "UNDO FINALIZE", and the screen below will



· When you select "START" and press ENTER, the cancelling finalization will start. The screen below will



· When you select "CANCEL" and press ENTER, the DISC SETUP screen will appear

- During the cancelling finalization the cursor will move
- repeatedly. The cancelling finalization process may require a fe minutes to about 1 hour according to disc type or the amount of free space on the disc.
- When the disc's finalization cannot be cancelled, you cannot select "UNDO FINALIZE"

### DVD-RAM Physical Format

Physically formats a DVD-RAM disc. Whenever you use a new disc for the first time, be sure to format it.

The physical format process may require about 1 hour according to disc condition.

# This section describes the other setting in SYSTEM SETUP

### Preparation:

Turn ON the TV and set it to the video input mode. Select 'OTHER' from 'SYSTEM SETUP'. For the pro-cedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



### DIMMER (Brightness of the display window)

You may adjust the brightness or turn off the display on the front panel of the unit. Select "DIMMER" and select the display window status from the below.

AUTOMATIC: When the power is on, the display window appears bright. When the power

is off, it appears dark. DIM The window display always appears

OFF

dark.
When the power is on, the display window appears dark. When the power is off, it is turned off.

# DISPLAY/CALL (Turning the screen

display "ON" or "OFF")
You can turn off the screen display that is output to the TV screen by this unit. Select "DISPLAY/CALL", and select "ON" or "OFF".

ON: The screen display appears.

OFF: Nothing but the SETUP MENU and error mes-

# Setting the screen

# This section describes settings about the screen.

Preparation:
Turn ON the TV and set it to the video input mode.
Select "AV SETUP 1" from "AV SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU"



### TV SCREEN

the TV screen size to suit the screen

image.
Select "TV SCREEN" and select screen size from the

### 4:3 Pan scan

It displays a wide picture across the whole screen with left and right edges automatically cut off.

### 4:3 Letter hox

4:3 Letter box Select this mode when connecting to a conventional TV. When playing back a wide screen DVD disc, it displays a wide picture with black bands at the top and bottom of screen.

### 16.9

Select this mode when connecting to a wide-screen TV. A wide-screen picture is displayed in full size.

If the DVD disc is not formatted in the pan scan format, it displays a 4:3 aspect ratio.

# STILL MODE

You can set the type of image displayed on the TV screen when the playback of the DVD is stilled.

Select "STILL MODE" and select the image to be displayed from the below. AUTOMATIC

### The field still or frame still is automatically selected.

(For normal use.)

### Note for the field still and frame still:

(with 480i interlaced scanning mode) Field\* still (240 lines)

Since only one field (half of the video information) is shown on the TV screen, the picture appears rough but does not shake.

Frame\* still (480 lines)

Two fields are alternatively shown on the TV screen.

The picture shakes but the resulting picture quality is superior to the field still pictures.

Field\*: A field refers to the video information in one-A field refers to the video information in one-half of a frame. 1 frame (screen) consists of 2 fields. fields. Frame\*: A frame refers to the total area occupied by

each picture on the TV screen.

### LINE1 INPUT/LINE2 INPUT

This unit comes with an S-Video input jack and Video input jack. When you use an S-Video or Video input jack, you must select the input mode.

Select "LINE1 INPUT" ("LINE2 INPUT") and select the

The Video signal is input only from the S-Video input

The video signal is input only from the video input

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# Setting the image quality / Setting the audio

This section describes image quality settings.

### Preparation:

- Turn ON the TV and set it to the video input mode
- Select "AV SETUP 2" in "AV SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



### **BRIGHTNESS**

You can control the brightness level of the image. Select "BRIGHTNESS" and select the level from the

MAX: The image becomes brighter

STD: The image becomes drightness.

MIN: The image becomes darker.

To select the black level of playback pictures, set your preference and monitor's ability.

ON: Enhanced grey scale (0 IRE cut off)
OFF: Standard grey scale (7.5 IRE cut off)

The E.B.L. function only works when playing back DVD-Video. DVD-RAM/RW/R or Video-CDs

This section describes audio settings

- Turn ON the TV and set it to the video input mode.
- Select "AUDIO" from "AV SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



# DRC

DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment. Select "DRC" and select the level from the below.

MAX: Full dynamic range is maintained. STD: Full dynamic range is reduced. TV: Dynamic range is reduced

- This function works only during playback of Dolby
- Digital recorded discs.

  When you listen to the sound from TV's speaker, we recommend that you select "TV".

  The level of Dynamic Range Reduction may differ

### VIRTUAL SURROUND (Spatializer N-2-2TM)

Sound that is not recorded in the surround mode will be changed to artificial surround sound and output. Select "VIRTUAL SURROUND" and select "ON" to activate the virtual surround function. To not use the vir-tual surround, select "OFF".

This function does not work with a video tape

### EXTERNAL AUDIO INPUT

depending on the DVD

The audio mode for the audio input jack can be selected, choosing either stereo or monaural. Select "EXTERNAL AUDIO INPUT" and select from the

The sound is treated as stereo sound. The sound is treated as the monaural

sound of the left channel.

The sound is treated as the monaural R CH sound of the right channel

# Setting the audio / Setting the recording

### SAP (Second Audio Program)

This unit is fitted with an SAP broadcast system that enables you to switch to a second audio program while viewing a selected channel.

This function applies only when the program is broad-cast in multiple languages through the SAP broadcast

system. Select "SAP" and select "ON" to use SAP, and to not use it. select "OFF".

Listening to SAP When the unit is turned on or a channel selection is made, make certain the letters "SAP" appear on the screen. This means that "Second Audio Program" broadcasting is available

### This section describes recording settings.

### Preparation:

Turn ON the TV and set it to the video input mode.
Select "REC SETUP". For the procedure, see steps
1 to 3 in "Using the SETUP MENU" on page 23.



### INITIAL REC TO

You can select the recording media that is first displayed in the item "REC TO" on the timer recording screen. Select "INITIAL REC TO" and select "DVD" or "VCR".

### **INITIAL REC MODE**

You can select the recording mode that is first displayed in the item "REC MODE" on the timer recording screen. Select "INITIAL REC MODE" and select XP, SP, LP, or SLP.

- For the DVD recording mode, see page 52, And for
- For the DVD recording mode, see page 52. And for the VCR recording mode, see page 48. Even if you select the recording mode by "INITIAL REC MODE", the recording mode on the display window does not change. If you want to change the recording mode, press REC MODE/SPEED on the

### AUTO CHAPTER

You can automatically make chapter marks on the DVD to be recorded. Select "AUTO CHAPTER" and select the interval be-

tween chapter marks from the below The automatic chapter is not used

5 MIN: The interval is set to 5 minutes.

10 MIN: The interval is set to 10 minutes.

15 MIN: The interval is set to 15 minutes.

### 30 MIN: The interval is set to 30 minutes

INDEX PICTURE You can set the time that the thumbnail image is registered in the title menu of DVD-RW (VR mode).

Select "INDEX PICTURE" and select from the below. 0 SEC: The image of a recording start point is regis-

 $\label{eq:mage1} \begin{tabular}{ll} tered. \\ \begin{tabular}{ll} 1 \ MIN: & The image 1 minute after a recording start is \\ \end{tabular}$ registered.

3 MIN: The image 3 minutes after a recording start

NOTE: You cannot select the thumbnail image for Video mode.

### BLACK LEVEL (REC)

is registered.

You can set the black level for when you record. Standard : Records at the level of the input

source. Enhanced: Lowers the level 7.5IRE and records.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries and may subject you to civil and/or criminal liability.

# Setting the channel / Setting other items

This DVD/VCR is equipped with a channel memory feature that allows you to skip channels up or down to the next channel set in memory, hence skip over

to the next channels at in meniory, hence skip over unwanted channels. Before selecting channels, they must be pro-grammed into the DVD/VCR's memory. In addition to normal VHF and UHF channels, this DVD/ VCR can receive up to 113 Cable TV channels. To use this DVD/VCR with an antenna, set the TV/CABLE menu option to the TV mode. When shipped from the factory, this menu option is in the CABLE mode.

### Preparation:

- Turn ON the TV and set it to the video input mode. Select "CH SETUP". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



### TV/CABLE SELECT

Select "TV/CABLE SELECT" and select "TV" or "CABLE".

VHF/UHF channels CABLE: CABLE TV channels

### **AUTO CH MEMORY**

The VCR can receive a maximum of 181 channels by presetting the channels into memory.

When you select "AUTO CH MEMORY" and press EN-

The AUTO CH MEMORY function will be activated. The channel display will count up and, when finished, the screen returns to normal.

### ADD/DELETE (channels)

You can add the channels you want or delete the channels you do not want manually.

Select "ADD/DELETE" and select "ADD" or "DEL." for

- Press CH ∧/∨ to select the channel

 Press CH A/V to select the channel.
 The numeric keys can also be used for selection.
 When you want to delete the selected channel, press
 to select "DEL" and press ENTER.
 When you want to use the selected channel, press
 to select "ADD" and press ENTER. 32

You can set the switching interval between played back images in the slide show mode.

### Preparation:

- Turn ON the TV and set it to the video input mode. Select "OTHER". For the procedure, see steps 1 to 3 in "Using the SETUP MENU" on page 23.



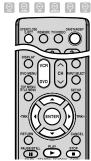
### JPEG INTERVAL

You can select the interval time for JPEG slide show

Select "JPEG INTERVAL" and select the switching interval between images from the below

OFF: The slide show mode is not used. 5 SEC: The interval is set to 5 seconds. 10 SEC: The interval is set to 10 seconds.
15 SEC: The interval is set to 15 seconds.

# Playback procedure



- If a non-compatible disc is loaded,
  "INCORRECT DISC", "REGION
  CODE ERROR" or "PARENTAL
  ERROR" will appear on the TV screen
  according to the type of loaded disc.
  In this case, check your disc again
- (See pages 9 and 25).
  Some discs may take a minute or so to start playback.
  A prohibition symbol "\" may appear
- at the upper right of the screen. This symbol means either the feature you tried is not available on the disc, or the DVD/VCR can not access the feature at this time. This does not indicate a problem with the DVD/VCR. When you set a single-faced disc label
- downwards (ie. the wrong way up) and press PLAY or OPEN/CLOSE, "READING" will appear and then it will change to "NO DISC".
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this DVD/VCR plays DVDs according to the disc contents by Ds according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.

  When playing DTS-encoded Audio
- CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD/VCR are connected to an amplification system

- Preparation:
  Turn ON the TV and set to the video input mode
- Press DVD to select the DVD mode. (The DVD indicator will light.)
- Press OPEN/CLOSE.
  The disc tray will open.

2 Insert a disc. Disc without a cartridge Insert with the playback side

> Place a disc to fit the guide. If a disc is out of the guide, it may result in damage to the disc or result in damage to the disc or malfunction. DVD-RAM disc with cartridge (TYPE1/TYPE2/TYPE4)

Single sided
Turn the printed side up, and insert the cartridge into the tray frame following the direction of the arrow on the cartridge.



Press OPEN/CLOSE to close the

disc tray.

"READING" appears on the screen and some discs start playback automatically.

A menu screen may appear on

the TV screen, if the disc has a menu feature. In this case, press

A, \(\neg \), \(\neg \), \(\neg \) or ENTER to operate a menu feature.

Press PLAY to start playback

- 5 Press STOP to end playback.
  The DVD/VCR memorizes the stopped point, depending on The DVDVVVIII memorates are suppled point, depending of the disc. "▶" appears on the screen for approx. 4 seconds.
  "▶" keeps blinking in the display until the playback is stopped completely. Press PLAY to resume playback (from the scene

  - If you press STOP again (" " appears on the screen), the DVD/ VCR will clear the stopped point.

Then press OPEN/CLOSE. 6

The disc tray opens. Remove the disc and press ON/STANDBY.

The disc tray closes automatically and DVD/VCR turns off.

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READING

# Playback by selecting a title

When playing back a recorded disc, you can display the title menu and select the title to be played back.



### NOTE:

When a disc that has been recorded in the Video mode is finalized, the title menu is automatically changed that can be played back even with other DVD players. Thumbnail image and recording information will not appear in the title menu after finalizing



- Turn ON the TV and set to the video input mode.
  Load a recorded DVD.
  Press DVD to select the DVD mode. (The DVD indicator will light.)

### Press TITLE MENU

The title menu will appear



If there are many original titles and playlists...
Before pressing TITLE MENU, press DVD MENU until "VR ORG" or "VR PL" will appear on the upper right of the TV screen, then press TITLE MENU.

The first original title or playlist will be highlighted

Press ▲ or ▼ to select the title you want to playback.



# 3 Press ENTER.

The selected title is played back

- If you don't display the title menu and press PLAY, the first title is played back.

  The title menu is used not only for playing back titles but also for
- editing various discs and titles. For details of editing operation, see
- editing various discs and titles. For details of editing operation, see page 62. If you create a playlist, an original title and playlist appear in the title menu. For creating a playlist, see page 63. In case the disc includes more than 10 titles, you can turn to the next of the previous page. Press  $\blacktriangleleft$  then press  $\blacktriangleleft$  or  $\blacktriangle$  to display next/previous page. To return to normal use, press  $\blacktriangleright$ .
- You cannot switch to the VCR mode when the title menu is showing. Press TITLE MENU to clear the title menu, then press VCR to switch

# Checking media information



Various information on the lo disc can be displayed on the TV



- NOTES:
   The displayed information varies with the type of media.
- Some information may not appear due to media type or operating conditions.
- In stop mode, some information does not appear.

- Preparation:

  Turn ON the TV and set it to the video input mode.

  Load the disc.

  Press DVD to select the DVD mode. (The DVD indicator will light.)
- 1 Press DISPLAY.

Media information will appear.



2 Press DISPLAY while the media information above is displayed. The next media information will appear



\*The remaining time displayed during recording may be different from the actual remaining time. When you want to check the correct remaining time, stop recording and display the media infor-

3 Press DISPLAY again while the media information above is displayed. The media information will disappear.

\*If you press DISPLAY during chase playback, the information

'If you press DISPLAT curring crease prayers, the services is societies is displayed.

The symbols indicate that the player is in chase playback. The progress bar shows the current position of playback and the position of recording. Normally the recording position is shown as being at 100%. Items other than these appear the same as on a normal information screen.



# Special playback

NOTE: There may be a slight delay between pressing the button and the function activation.



### Fast forward playback

Press SEARCH ▶► during normal playback.
Each press of SEARCH ▶► will increase the speed of the search
▶►(x2), ▶►► (x12), ▶►►► (x24), ▶►►► (x60).

(The speed of the search is increased up to only 2 steps in Audio CD.)

· To resume normal playback, press PLAY.

### Review playback

Review piayback
Press SEARCH ◄◀ during normal playback.
Each press of SEARCH ◄◀ will increase the speed of the search
◄◄ (x/2), ◄◄◄ (x/2), ◄◄◄ (x/4), ◄◄◄◄ (x/60).
(The speed of the search is increased up to only 2 steps in Audio CD.)

To resume normal playback, press PLAY.

Still playback

Press PAUSE/STILL during normal playback.

To resume normal playback, press **PLAY**.



Frame advance
Press PAUSE/STILL during still play-One frame is advanced each time you

To resume normal playback, press



Press SLOW during normal playback or still playback.
Each press of SLOW will change the speed of the slow "I>1/2",
"I>1/4", "I>1/8".

- To resume normal playback, press PLAY.
  To resume the still playback, press PAUSE/STILL.

### Locating a chapter or track

Press SKIP ▶►I or SKIP I◄◄ during playback to locate a chapter that you want to watch.

Each time you press the button, a chapter or track is skipped.

 When you press SKIP I◄◄ once, playback starts from the beggining of the current chapter or track. If you want to play the preceding chapter or track, press SKIP I◄◀ twice in quick successions.

### NOTES:

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- The unit is capable of holding a still video image or On screen display image on your television screen indefi-nitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible. Fast forward and review playback does not work with a MP3/WMA/JPG-CD.

· Frame advance and slow motion does not work with a CD.

# Instant skip / Locating a specific scene





### Instant skip

Use this function to skip commercials while you playback.

Press INSTANT SKIP during playback.
The time jumps to a point approx. 30 seconds later and playback re-

With some DVD-Video, the Commercial skip operation may not work.

Locating a specific scene Specify the time recorded on the disc, chapter or title to playback

### 1 Press PLAY MODE.

The play mode screen will appear.



2 Press ◀ or ▶ to select "TIME SEARCH", "CHAPTER SEARCH" or "TITLE SEARCH", and press ENTER.

TIME SEARCH: Input the time to be played back.

CHAPTER SEARCH: Select the chapter number to be played back.

TITLE SEARCH: Select the title number to be played back.



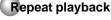
The screen above shows the display when "CHAPTER SEARCH" is selected.

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- 3 When selecting "TIME SEARCH", input the time to be played back with the **numeric keys**. When selecting "CHAPTER SEARCH" or "TITLE SEARCH", press ▲ or ▼ to select the chapter number or
- Press ENTER.
  The playback starts at the point you selected.

### NOTE:

For "REPEAT", see "Title, Chapter repeat playback" (page 38)







### NOTES:

- Some discs may not work with the
- repeat operation. In A-B repeat mode, subtitles near
- point A or B may not appear.

  A-B repeat does not work during the Title and the Chapter repeat
- playback. You may not be able to set A-B repeat, depending on the scenes of the DVD.
- A-B repeat and Title, Chapter repeat does not work with a MP3/ WMA/JPEG-CD and Video CD.

### Instant replay

This feature can be used to repeat the last 10 seco material, and continues to play as normal.

Press INSTANT REPLAY during playback.
The video returns to a point 10 seconds before and playback resumes.

- If the time from the title top is less than 10 seconds when **INSTANT REPLAY** is pressed, the title top is repeated and then the video is played back.

  With some DVD-Video, the one touch repeat operation may not work.

### A-B repeat playback

A-B repeat playback allows you to repeat material between two

- 1 Press A-B REPEAT during play-The start point is selected
- 2 Press A-B REPEAT again. The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to point A automatically,

then starts again.

To resume normal playback press A-B REPEAT again. "OFF" annears on the screen

### Title, Chapter repeat playback

1 Press REPEAT.

The play mode screen will appear



2 Press ◀ or ▶ to select "REPEAT" and press ENTER.



3 Press ▲ or ▼ to select "OFF", "CHAPTER" or "TITLE".

4 Press ENTER.
To cancel the repeat playback, select "OFF" in step 3.

# Title selection / DVD menu

O O O

123

456

7 8 9

PAUSE/STILL PLAY STOP

SPEED RECOUR TIMER REC SLOW

DANGLE: AUGIO: SUBTITLE: CLOCK:
DIATEREET AND SEE: ATR
DESCRIPTION

Depending on the DVD, you may be

ZOOM PLAY MOOR PLAY MOOR REPEAT

REW F.FWD NDEX

. D

SETUP

# Title selection

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

- Press TOP MENU/TITLE MENU during playback.
- The title menu appears on the screen
  - Press TOP MENU/TITLE MENU again to resume playback at the scene when you pressed TOP MENU/TITLE MENU.
- 2 Press ▲/▼ or ◀/▶ to select the desired title.

Press ENTER.
The playback of the selected title will start.

# DVD menu

Some DVDs allow you to select the disc contents using the menu.

When you playback these DVDs, you can select the subtitles language and soundtrack language, etc. using the DVD menu.

- 1 Press DVD MENU during playback. The DVD menu appears on the screen.
  - Press DVD MENU again to resume playback at the scene when you pressed DVD MENU.
- 2 Press ▲/▼ or ◀/▶ to select the desired item.

3 Press ENTER. The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.

unable to select the title, and a "title OFF: Playback is not repeated.
CHAPTER: The chapter in playback is repeatedly played back
TITLE: The title in playback is repeatedly played back. menu" may simply be called a "menu" or "title" in the instructions

# Changing angles / Zooming / Karaoke playback



SPEED RECIOTR TIMER REC SLOW

ETURN ABREREAT REPEAT

Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded

You can use the Pause, Slow Search or Skip feature in the

zoom mode. The vocal output feature is used during playback of Dolby Digital (multi-channel) recorded DVD KARAOKE discs. This feature

allows you to turn off vocal audio

background accompaniment.
When playing Karaoke, connect appropriate audio equipment

such as an amplifier to this unit.

tracks, or restore them for

NOTES:

Changing angles

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

1 Press ANGLE during playback. The current angle will appear.



2 Press ANGLE repeatedly until the desired angle is selected.

### Zooming

This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

1 Press ZOOM during playback. The center part of the image will be zoomed in. Each press of **ZOOM** will change the ZOOM "x2", "x3" and "x4".



2 Press ▲/♥ or ◀/▶ to view a different part of the frame. You may move the frame from the center position to UP, DOWN, LEFT or RIGHT direction.

 $\boldsymbol{3}$  In the zoom mode press  $\boldsymbol{\text{zooM}}$  repeatedly to return to a 1:1 view

### Karaoke playback

You can turn the vocal on or off recorded on the DVD KARAOKE.

During DVD KARAOKE disc playback press AUDIO repeatedly until the desired setting is selected.

Vo. OFF disc.

The primary vocal is not output.



- Some Karaoke discs may not have the vocal on/off function.
   The on screen display will disappear after a few seconds.

# Changing soundtrack language / Subtitles / To turn off the PBC

STANT REPLAY

Õ

SEARCH/ SEARCH/ SKIP/ REW F.FWD INDEX

SPEED RECOUTR TIVER REC SLOW

ANGLE AUDIO SUBTITLE CLOC CLARENESS ABOSILE ATR COUNT 2008 PLAY NOO!

If the desired language is not heard after pressing the button several times, the language is not recorded

Changing soundtrack or subtitles language is cancelled when you open the disc tray. The initial default language or available language will be heard and seen if the disc is

be neard and seen if the disc is played back again. Depending on the DVD you may be unable to turn on, turn off, or change the subtitles, even if they are re-corded on the disc. While playing

the DVD, the subtitles may change while opening or closing the disc tray, or while changing the title. In some cases, the subtitles lan-

guage is not changed to the selected one immediately.

NOTES:

on the disc.

Changing soundtrack language ect the language when you play a multilingual disc

Press **AUDIO** during playback. The current soundtrack language will appear.



2 Press AUDIO repeatedly until the



■In case of VIDEO CD playback

Audio type will change as follows each time you press AUDIO

VIDEO CD



Turning the subtitles On and Off

Press SUBTITLE during playback until



Changing the subtitles language
You can select the language when playing back a disc recorded with multilingual subtitles.

Press **SUBTITLE** repeatedly during playback until your desired language

The on screen display will disappear after a few seconds.



To turn off the PBC

Press TITLE MENU in the stop mode, then press ENTER.

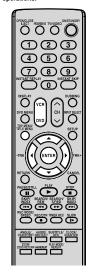
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# Various operations on CD



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This section describes the TRACK INFO screen where music CDs can be played back using the various



### NOTE:

In case the disc includes more than 10 tracks, you can turn to the next or the previous page. Press

◀, then press ▼ or ▲ to display next/previous page. To return to normal use, press .

- Turn ON the TV and set to the video input mode.
- Load the music CD
- Press DVD to select the DVD mode. (The DVD indicator will light.)

Press TOP MENU/TITLE MENU.
The TRACK INFO screen will appear.
Scroll bar

Scroll bar

The elapsed time and total time of the music data (during playback)
The reack number of the music data (during playback)
The reack number of the music data (during playback) The music data I Current playback m The elapsed time and — total time of the whole CD

Press . The menu list will appear



### Playing back a selected track

- Press  $\blacktriangle$  or  $\blacktriangledown$  to select the track number you want to playback and press  $\blacktriangleright$  .
- Press ▲ or ▼ to select "PLAY" from the menu list and press ENTER. The selected track will be played back.

### **Excluding specified track**

- During stop, press  $\triangle$  or  $\nabla$  to select the track number you do not want to playback and press  $\triangleright$ .
- 2 Press ▲ or ▼ to select "HIDE/SHOW" from the menu list and press ENTER. The selected track will not be played back. ("H" appears at the side

When you want to cancel the exclusion, press  $\blacktriangle$  or  $\blacktriangledown$  to select the track number with "\footnote{\text{"1"}} and press  $\blacktriangleright$ . Press  $\blacktriangle$  or  $\blacktriangledown$  to select "\footnote{\text{"1IDE"}} SHOW" from the menu list and press \text{ENTER,"} \footnote{\text{"1IDE"}} will be cancelled.

# Various operations on CD





NOTE: When recording on a CD-R/CD-RW in the MP3 or WMA modes, "RAN-DOM PLAY" and "TIME SEARCH" will not appear in the menu list

### Random playback

- Press  $\blacktriangle$  or  $\blacktriangledown$  to select "RANDOM PLAY" from the menu list and press <code>ENTER</code>. The order of music tracks is randomly changed.
- 2 Press PLAY.

Music is played back in random order

To cancel random playback, select "RANDOM PLAY" from the menu list again, and press ENTER.

### Repeat playback of selected track

- 1 Press ▲ or ▼ to select the track number you want to repeat playback and press ▶.
- 2 Press ▲ or ▼ to select "REPEAT TRACK" from the menu list and by press ENTER.

Press PLAY.
The selected track will be played back repeatedly.

To cancel repeat track playback, select "REPEAT TRACK" from the menu list again, and press ENTER.

### Repeat playback of all tracks

- 1 Press ▲ or ▼ to select "REPEAT ALL" from the menu list and press ENTER.
- 2 Press PLAY.

All tracks on CD will be played back repeatedly.

To cancel the repeat all playback, select "REPEAT ALL" from the menu list again, and press ENTER.

### Playing back programs

You can specify the playback order yourself.

- Press  $\blacktriangle$  or  $\blacktriangledown$  to select "PROGRAM PLAYBACK" from the menu list and press ENTER.
- 2 Press ▲ or ▼ to select to the track number that you want to change the order of and press ENTER.

  The "▶" mark will appear at the right side of the track number.
- 3 Press ▲ or ▼ to select to the track number that you want to specify and press ENTER. The track number that you select in step 2 moves to the position that you specified.
- Repeat steps 2 and 3 to change the playback order.

The tracks will be played back in the changed order.

To cancel program playback, select "EXIT PROGRAM MODE" from the menu list and press ENTER.

### Playing back track by specifying the time

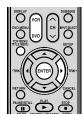
- Press  $\blacktriangle$  or  $\blacktriangledown$  to select "TIME SEARCH" from the menu list during playback and press **ENTER**.
- 2 Press ▲/▼ or ◀/▶ to specify the elapsed time of the track (this will be the starting point of playback) and press **ENTER**. Playback will start from the specified elapsed time.

# MP3/WMA/JPEG playback



MP3 and WMA files can be played back. Also, you can display JPEG files on the TV screen and enjoy them as a slide show.

Some discs may not play due to



# Limitations on MP3/WMA/

- JPEG CD playback:

  MP3/WMA/JPEG CD is a disc that is standardized by ISO9660.
- The directory and file names of the MP3/WMA/JPEG CD must correspond to the ISO standardized file names. This unit can read 200 files per
- directory. If one directory has more than 200 files, it reads up to 200 files, the remaining files will be
- omitted.

  The unit is able to recognize up to a maximum of 50 directories per
- If the CD has both audio tracks and MP3/WMA/JPEG files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3/WMA/ JPEG files depending on its struc-
- Music recorded by "Joliet Recording Specification" can be played
- back. Long file names will be cut.

  The music files recorded by "Hierarchical File System" (HFS) cannot be played.

- Turn ON the TV and set to the video input mode
- Load the disc storing MP3, WMA or JPEG.
   Press DVD to select the DVD mode. (The DVD indicator will light.)

### Using the BROWSER screen

1 Press TITLE MENU. The BROWSER screen will appear.



2 The MP3, WMA and JPEG files and folders stored in the disc are displayed on the BROWSER screen.

Select a folder and press ENTER. The files in the folder appear

### When the file to be displayed is selected

You can select the file types to be displayed on the BROWSER screen.

1 Press ▶ to select "SELECT FILES" and press ENTER. The following list will appear.



MUSIC ONLY: Only the MP3 and WMA files appear. PICTURES ONLY: Only the JPEG files appear
ALL: All files and folders appear

2 Select one item in the above list and press ENTER The display will be changed to the selected display type

# MP3/WMA/JPEG playback





- MP3 CD
   MP3 files must have the extension letters ".mp3".
  - Standard, sampling frequency, and the bit rate: MPEG-1 Audio 32kHz, 44.1kHz, 48kHz
  - 32kbps to 320kbps (constant bit The recommend recording setting for a high quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate

### WMA CD

- When creating a WMA disc, make sure that the copyright function is off. DRM (Digital Rights Management) files cannot be played back.
- WMA files must have the extension letters ".wma". Standard, sampling frequency, and
- the bit rate: WMA version 7 and 8 32kHz 48khns
- 44.1kHz, 48kbps to 192kbps 48kHz,128kbps to 192kbps Music files recorded as mono, 48kHz, 48kbps cannot be played back by this unit.

### Playing back MP3/WMA files

- 1 Press ▲ or ▼ to select MP3 or WMA file.
  - In case the disc includes more than 10 files, you can turn to the next or the previous page. (See page 42.)



2 Carry out either of the item a or b below.

a: Press ENTER.
b: Press P to select "PLAY" and press ENTER.
The TRACK INFO screen appears to playback the selected file.
For the details of the TRACK INFO screen, see "Various operations on CD" on page 42.



To return to the BROWSER screen, press RETURN.
To stop playback of the MP3 or WMA files, press TITLE MENU.

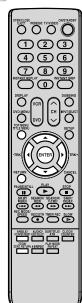
This DVD/VCR requires discs and recordings to meet certain technical standards in order to achieve optimal This DVD/VCH requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Per-ecorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback. Because this area of technology is still evolving. Toshiba cannot guarantee that all recordable discs will produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide.

Please be advised that you must obtain permission from the applicable copyright owners to download copyrighted content, including music files, in any format, including the MP3 and WMA formats, prior to the downloading hereof. Toshiba has no right to grant and does not grant permission to download any coprighted content.

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# MP3/WMA/JPEG playback





JPEG CD JPEG files must have the extension letters ".jpe", ".jpeg" or ".jpg"

### Playing back JPEG files

1 Press ▲ or ▼ to select JPEG file.

In case the disc includes more than 10 files, you can turn to the next or the previous page. (See page 42.)



2 Carry out either of the item a or b below. a: Press ENTER.

b: Press ▶ to select "PLAY" and press ENTER.

The thumbnail images of the JPEG files stored in the route direct

tory or the folder appear. Press  $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacktriangleleft$  or  $\blacktriangleright$  to select the pages of the thumbnail images, or select the JPEG file to be displayed at first for the slide



Press ENTER to play the selected picture.
If you have set the interval time for JPEG slide show, the pictures

will be played back one after another automatically. (See page 32.)

Press ZOOM to enlarge the displayed image.

Press ANGLE to rotate the image by 90 degrees each time



4 To return to the thumbnail screen, press RETURN. To stop the slide show, press TITLE MENU

# Progressive scan









The unit supports the progressive scanning system as well as the conventional interlaced scanning system. If your TV is equipped with component video input jacks which support the progressive video input, you can enjoy high quality picture by making the progressive scanning mode active.



 Connect to a TV equipped with component jacks which support the progressive video input.

Turn ON the TV and set it to the corresponding video input mode.

Press **DVD** to select the DVD mode. (The DVD indicator will light.)

2 Press PLAY to start playback.



To make the progressive scanning mode inactive, press PROGRESSIVE in the stop mode. The PROGRESSIVE indicator " on the display window will go off.

### Different scanning modes

### Interlaced scan

Technology that alternately displays odd-numbered scanning lines and even-numbered scanning lines. Also called "480i", "i" meaning "interlace".

Technology that simultaneously displays odd-numbered scanning lines and even-numbered scanning lines from top to bottom. Also called "480p", "p" meaning "progressive".

- Some discs may not be played back with the progressive scan mode correctly because of the disc characteristics or recording condition.

  There are some progressive TV and High-Definition TV sets that are not fully compatible with the unit, resulting in an unnatural picture when playing back a DVD disc in the progressive scan mode. In such a case, use the interlaced scanning mode.
- You cannot activate the progressive scan mode in the following cases:

   The unit is in the VCR mode.
- A DVD disc is currently playing. You must stop playback first

# Loading and unloading a cassette tape



Use only video cassette tapes marked  $\overline{\text{VHS}}$  and  $\overline{\text{SVHS}}$  .

### **SQPB**

- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder However, S-VHS recording is not possible with this model.
- Its includes the mass include. This model is equipped with SOPB (S-VHS QUASI PLAYBACK) that makes it possible to playback S-VHS recordings with regular VHS resolution.

  HQ VHS is compatible with existing VHS equipment.

Push the center of the tape until it is automatically inserted.



Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.





Automatic nower ON

When you insert a case tape the VCR power will turn ON automatically

When loading a cassette tape without an erase prevention tab, playback will start automatically.

### Unloading

You can eject the video tape while the unit is turned off.

Press **EJECT** on the unit or the remote control.



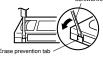


### Automatic tape eject

This VCR will automatically rewind the tape when the tape has ended. And when the tape is rewound to its beginning, the cassette tape will be ejected automatically.

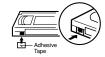
### To prevent accidental erasure

move the erase prevention tab with a screwdriver



# To record again

Cover the hole with a piece of adhesive tape



### Tape speed and maximum recording time

| Tape Speed            |             | ,       | Video cassette tape | )       |             |
|-----------------------|-------------|---------|---------------------|---------|-------------|
|                       | T-160       | T-120   | T-90                | T-60    | T-30        |
| SP (Standard Play)    | 2-2/3 hours | 2 hours | 1-1/2 hours         | 1 hour  | 30 minutes  |
| SLP (Super Long Play) | 8 hours     | 6 hours | 4-1/2 hours         | 3 hours | 1-1/2 hours |

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# Special playback



### Picture search

Reverse picture search function Press **REW** x 1 or x 2 during the playback. Forward picture search function Press **FFWD** x 1 or x 2 during the playback. To return to playback: Press **PLAY**.

### SPEED SEARCH TIMES

| TAPE SPEED            | PICTURE SEARCH SPEED |             |  |
|-----------------------|----------------------|-------------|--|
| IAPE SPEED            | PRESS ONCE           | PRESS TWICE |  |
| SP (Standard Play)    | 3 X                  | 5 X         |  |
| LP (Long Play)        | 7 X                  | 9 X         |  |
| SLP (Super Long Play) | 9 X                  | 15 X        |  |

### Still picture

To resume normal playback: Press PLAY or PAUSE.

### Slow motion

During playback press **SLOW**. To return to playback: Press **PLAY** or **SLOW**.

### Slow tracking and vertical lock adjustment

Slow tracking and vertical lock adjustment if noise bars appear in the picture during slow motion, press the TRK + or – to reduce the noise bars. If the still picture jitters excessively, press TRK + or – to stabilize the still picture.

### Frame by frame picture

Press PAUSE during playback.
Press SLOW one by one: The picture advances frame

To return to playback: Press PLAY or PAUSE.

### Adjusting tracking condition

Automatic tracking adjustment
Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

### Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, press TRK +/- to eliminate the noises. "MANUAL TR." will appear. Press it briefly for a fine ad-justment, or press and hold for a coarse adjustment.

Press ATR to reactivate automatic tracking again. "AUTO TR." will appear.

### NOTES:

- The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.

  During picture search mode there will be noise bars which are caused by the system.
- The Special Playback will automatically change to playback after approx. 5 minutes to protect the video tape against excessive wear.

# Repeat playback

The entire video tape will be played until its end. The tape will then automatically rewind to the beginning and the playback will be repeated

- 1 Press REPEAT while the VCR is playing back.
- 2 By pressing REPEAT each time, "REPEAT ON" or "REPEAT OFF" is selected in turn.



3 When "REPEAT ON" is selected, the tape is played which REPEAT ON Is selected, the table is played back to the end, and then, it is automatically re-wound to the starting point and played back again. The display "REPEAT ON" goes out in about 3 sec

To cancel repeat playback: Press REPEAT to select "REPEAT OFF"

Press INSTANT SKIP during playback. The video is rapidly forwarded for approx. 30 seconds

and playback resumes.

You may press the button up to six times in a row to move 180 seconds ahead

To display VCR operation status
Press DISPLAY. The clock, day of the week and more information will be indicated.

# While watching TV DAY OF THE WEEK



### While operating a tape



To cancel the display: Press DISPLAY until all indi-

# Cassette tape playback





- NOTES:
   This VCR selects the playback tape speed SP, LP or SLP auto-
- A cassette tape and DVD disc can be played back simultaneously. If you press VCR, the tape playback and DVD playback alternate with

- Turn ON the TV and set to the video input mode.

  Press VCR to select the VCR mode. (The VCR indicator will light.)
  - Load a prerecorded tape (When loading a cassette tape without the erase prevention



# 2 To start playback Press PLAY.

Playback will start.

">" will appear on the screen for about 4 seconds.

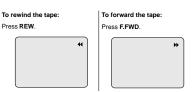
tab, playback will start automatically).



To stop playback
Press STOP once.
The tape will stop but remain fully loaded and ready to play.



To rewind the tape or forward it rapidly



To stop the tape-winding, press **STOP**. To switch to playback directly (without **STOP**), press **PLAY**.

### Forward/Reverse picture search mode

When the tape is being winded, you can switch to picture search mode (see next page). To do this, press **REW** or **F.FWD** and hold it down. The unit will resume the tape winding as soon as the button is released.



# **ZERO RETURN function**

This function makes tape rewinding stop at the counter "00:00:00"



- NOTES for Counter Display:
   If you rewind the tape beyond "00:00:00", a minus sign ("-") will be displayed in front of the time.
- When you load a tape, the counter will reset to "00:00:00". The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

### NOTES for Video index search

- system:When you record an INDEX mark
- When you record an INDEX mark at the very beginning of the tape, the mark may not be found.
   During INDEX search, the tape may stop and begin to play at a slightly different location.
   INDEX may not function properly with old or worn out video tapes.
   INDEX marks may not be found if it is extremely close to the point
- it is extremely close to the point where the search began
- In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.

ZERO RETURN function / Video index search system

 Press DISPLAY.
 The counter display shows the tape running time during playback or recording



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Press COUNTER RESET at the desired tape position. The counter display will be reset to the "00:00:00" position (e.g. the beginning of recording).



Press STOP when playback or recording is finished. Press ZERO RETURN.

The tape will be rewound or fast forwarded and automatically stop at the "00:00:00" position

Switching the display between clock and counter
Press CLOCK/COUNTER. The clock

and tape counter alternate with each other in the display



# Video index search system

### Recording an INDEX MARK

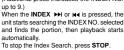
The Index search function automatically records an INDEX mark on the tape whenever a record-



### Index search

Press INDEX ▶►I or I44 during stop or play

For Succeeding programs: Press INDEX ▶▶ For Preceding programs: Press INDEX No. (Additional press increases the INDEX NO.





This section explains things you must know to record onto a disc. Read it before attempting to record.

Should a power failure occur or should the AC cord plug be disconnected while recording, editing, initializing, finalizing or any other function, the program being recorded will be lost or the disc may not be play-able. Manufacturer can not guaran-tee against loss of program or disc should this occur. To start recording again, re-format the disc or use a new disc and follow the instruction

### NOTES:

Recording time can change for the

- following reasons.

  When image quality is poor as during poor TV reception.

  When recording on a disc that has
- been edited before.
- When the video is followed with recordings of still images or just au-

### NOTE:

Recause of characteristics neculiar to digital video compression technology, scenes with fast motion may appear as a matrix of larger blocks

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### Types of disc

can use DVD-RAM. DVD-RW and DVD-R discs to record video

- DVD-RAM/-RW (VR mode)
  This mode involves mutiple editing functions.
  Various editing options using a created Playlist.

### DVD-RW (Video mode)/-R

Simple editing (renaming titles)

For more information on recording format, see "Recording format" (page 10).

### Recording modes

There are 4 modes for recording on disc. Recording time and quality vary according to mode.

| Recording mode | Recording time  | Quality  |
|----------------|-----------------|--|
| XP             | Approx. 60 min  | Can record high quality images.                              |
| SP             | Approx. 120 min | Can record normal quality images.                            |
| LP             | Approx. 240 min | Quality deteriorates slightly, but recording time is longer. |
| SLP            | Approx. 360 min | Recording time is prioritized over quality.                  |

· Recording time above is based on a 4.7GB disc

Since DVD recording is performed using VBR (Variable Bit Rate), recording time varies according to the recorded content.

To know the correct recording time, stop recording and check the media information. (See page 35.)

### Disc remaining time

### VR mode

- Recording is possible as long as there is available space on the disc. (Finalized discs can be recorded by cancelling the finalization, see "UNDO FINALIZE" on page 28.)

  Erasing unnecessary title trees up available space on the disc. (Titles
- can be erased from finalized discs by first undoing the finalization. See "UNDO FINALIZE" on page 28.)

- Up until the disc is finalized, recording is possible as long as there is available space on the disc. (Once the disc has been finalized, addi-
- available space on the disc. (Once the disc has been infallized, additional recording and erasing are not possible.)

  The remaining time cannot be increased, nor can recorded title be overwritten.
- Titles cannot be erased nor can recorded titles be overwritten.

# Read this before recording on disc

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### Images that cannot be recorded

Some DVD-Video and broadcasts contain copy-restriction signals to protect copyrights. There are 3 types of copy-restriction signals: "Copy Free", "Copy Never" and "Copy Once".

### 'Copy Free" (unrestricted recording)

Land-based TV broadcasts and images you record yourself with a video camera allow unrestricted recording. There are no restrictions on re-

### 'Copy Never" (recording prohibited)

- Images that contain the recording prohibited signal cannot be re-corded.
- If the recording prohibited signal appears halfway through an image you are recording, recording is paused at that instant. When the recording prohibited signal ends, recording resumes.
- This unit incorporates a built-in copy guard. It cannot record soft-ware or broadcasted programs that contain copy restriction signals designed to protect copyright, etc.

### "Copy Once" (one-time recordable)

Programs (images) that contain the one-time recordable signal can be recorded only in the VR mode using a DVD-RW disc that supports CPRM Ver. 1.1 and Ver 1.2.

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# Recording a TV program



You can record programs you watch on TV onto video tapes or DVDs



### NOTES:

When recording onto a DVD, it takes some time from when you press REC/OTR until recording

actually starts.
Press REC/OTR a little before your

preferred starting point.
With a video tape, recording starts almost at the same time you press REC/OTR.

If the erase prevention tab of video tapes is removed, the tape will eject when REC/OTR is pressed

for recording. The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

- Preparation:

   Turn ON the TV and set it to the video input mode.
- Load a recordable DVD or video tape into the unit.
- · Press DVD or VCR to select the appropriate mode

Press REC MODE/SPEED to select the recording mode.
The recording mode will appear on the TV monitor and change every time REC MODE/SPEED is pressed.
VCR recording modes: SP/SLP
DVD recording modes: XP/SP/LP/SLP

SP is the normal recording mode for video tapes. SLP offers 3 times the recording time as SP. For more information on DVD recording modes, see page 52.

2 Set the TV/CABLE option to the appropriate position (page 32).

TV - VHF/UHF channels CABLE - CABLE TV channels

3 Press the numeric keys or CH // to select the channel to be

TO SELECT Cable TV CHANNELS:

Press 0 twice and then 1-9 as required.

Example: To select 2, Press "002".

Press 0 first and then the remaining 2 digits in order

from left to right. Example: Press 012 for "12".

13-99 Press 2 digits in order.
Example: Press 22 for "22".
Press the 3 digits in order.
Example: Press 110 for "110".

TO SELECT TV CHANNELS 1-12

If only 1 or 2 buttons are pressed, the corresponding channel will he selected in 2 seconds

### VHF/UHF/CABLE CHANNELS

| TV    | CABLE              |
|-------|--------------------|
| VHF   | VHF                |
| 2-13  | 2-13               |
| UHF   | STD/HRC/IRC        |
| 14-69 | 14-36 (A) (W)      |
|       | 37-59 (AA) (WW)    |
|       | 60-85 (AAA) (ZZZ)  |
|       | 86-94 (86) (94)    |
|       | 95-99 (A-5) (A-1)  |
|       | 100-125 (100)(125) |
|       | 01 (5A)            |

4 Press REC/OTR.

• " appears on the screen for about 4 seconds and recording will start.



# Recording a TV program





Auto Rewind feature
This VCR will automatically rewind the tape when the tape has ended (except during OTR and TIMER REC). It will also eject the tape.

### NOTES:

NOTES:

If the disc space become full, the recording is stopped and "Disc is full will appear on the screen. The stopped and "Disc is full will appear on the screen."

Disc recording in the stopped and DTR and TIMER REC, the program can not be recorded on the disc.

When the power resumes, after the VCR/DVD is turned on, the set checks the disc to repair the error which is caused by a power failure. This checking process may require a few minutes to about 1 hour according to disc condition. In this process: "SYSTEM ERROR In this process "SYSTEM ERROR PLEASE WAIT DISC CHECKING" will appear on the screen.

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Press STOP to stop recording.
" " will appear on the screen for about 4

When recording onto a DVD, even if **STOP** is pressed during recording, recording does not stop instantly. Recording may continue for as long as 1 minute maximum.

# To stop recording temporarily Press PAUSE/STILL to avoid recording

unwanted material. • II " will appear on screen for about 4 sec-

onds. Press again to resume recording.

# ●II

- In video recording, the pause function will be released after 5 minutles to prevent damaging the video tape. The unit will change to the STOP mode. When recording onto a video tape, you can select a recording channel in the recording pause mode. (You cannot change a recording
- channel in the DVD recording pause mode.)

Recording one program while watching another While the unit is recording, press TV/VIDEO to select the TV position. The "TV" will light up on the display window and recording will continue. Select the TV channel you want to watch by using the TV channel

Some CABLE hookups do not permit viewing one channel while re-cording another. See pages 18, 19.

# **One-touch Timer Recording (OTR)**



The One-touch Timer Recording feature provides a simple and con-venient way to make a timed recording.



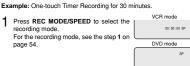
### NOTE:

If you wish to watch the DVD play-back during the VCR OTR, press DVD to change to DVD mode and perform the DVD playback. You can also playback the VCR during DVD

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- Turn ON the TV and set to the video input mode.
- Load a recordable DVD or video tape into the unit.
   Press DVD or VCR to select the appropriate mode

1 Press REC MODE/SPEED to select the recording mode.
For the recording mode, see the step 1 on



2 Set the TV/CABLE option to the appropriate position (See page 32).

| BLE | - VHF/UHF channels<br>- CABLE TV channels |
|-----|---|

3 Press numeric keys or CH ∧/∨ to select the channel to be recorded



Press REC/OTR. Each additional press of REC/OTR will increase recording time as shown in the chart below, up to a maximum of 6 hours. The OTR and recording time will appear on the screen for

| Press   | Recording time | Press    | Recording time |
|---------|----------------|----------|----------------|
| once    | NORMAL REC     | 7 times  | OTR 3:00       |
| twice   | OTR-:          | 8 times  | OTR 4:00       |
| 3 times | OTR 0:30       | 9 times  | OTR 5:00       |
| 4 times | OTR 1:00       | 10 times | OTR 6:00       |
| 5 times | OTR 1:30       | 11 times | NORMAL REC     |
| 6 times | OTR 2:00       |          |                |

| _ | VCR mode           |
|---|--------------------|
|   | OTR 0:30<br>CH 110 |
| _ | DVD mode           |
|   | OTR 0:30           |

### To cancel OTR

Press STOP or turn off the power.

" 
" " will appear on screen for about 4 sec



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# Timer recording



### NOTES:

If you select timer recording on a specified date only one time, select "ONCE" in the "TYPE" for record-ing. You can record same days of every week or from Monday to Friday using the item "TYPE". The items you can select are as follows:
ONCE: Recording on the selected "DATE"

EVERY SUN: Recording every Sun EVERY MON: Recording every

Mon.
EVERY TUE: Recording every Tue.
EVERY WED: Recording every

Wed. EVERY THU: Recording every Thu. EVERY FRI: Recording every Fri. EVERY SAT: Recording every Sat. MON-FRI: Recording from Mon. to

Fri. MON-SAT: Recording from Mon. to

Sat.

EVERYDAY: Recording everyday.

The starting and stopping times for

- The starting are displayed on the 12-hour (am/pm) clock. Twelve o'clock midnight is displayed as "12:00AM", whereas twelve o'clock noon is displayed as "12:00PM". The initial setting of "REC TO" and "REC MODE" on the Assential.
- "REC MODE" can be changed using "Setting the recording". (See page 31.)

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability. 4 Press ▲ or ▼ to select "TYPE" and press ENTER.
Press ▲ or ▼ to select "ONCE" from the list and press ENTER.



- 5 Press ▲ or ▼ to select "DATE" and press ENTER.
  Press ▲ or ▼ to select the date to be recorded from the list and press ENTER.
- 6 Press ▲ or ▼ to select "START" and press ENTER.
  - Press ▲ or ▼ to select "START" and press ENTER.

    Set the time when the recording is started.

    To switch over the selection item (hour or minute), press ◀ or ▶, then press ENTER.

    Press ▲ or ▼ to adjust the time.

    After setting the time, press ENTER.



- 7 Press ▲ or ▼ to select "END" and press ENTER.
- Press ▲ or ▼ to select "CH" and press ENTER.
   Press ▲ or ▼ to select the channel to be recorded.
   You can select the external input (L1 or L2) by pressing ◀ or ▶
- 9 Press ▲ or ▼ to select "REC TO" and press ENTER. Select the media (DVD or VCR) to be recorded from the list and oress ENTER.
- 10 Press ▲ or ▼ to select "REC MODE" and press ENTER.

Press & O' V to select NEC MODE, and press ENTER.

The recording modes for the media selected in "REC TO" item are listed up.

Select the recording mode and press ENTER.

For the recording modes in VCR, see page 48, and for the recording modes in DVD, see page 52.

# Timer recording







The timer recording system allows you to select the date, time and channel and record the desired programs. Up to 12 timer programs within a month can be stored in this unit.



or no disc space is available, the timer record indicator "[\_]" flashes.
Replace the tape or disc to allow recording.

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### Setting timer recording

### Preparation:

- Turn ON the TV and set to the video input mode. Load a recordable DVD or video tape. Press DVD or VCR to select the appropriate mode. · Confirm that the clock is indicating the correct time.

**Example:** Set the recording mode to LP; the TV program is on channel 12 starting at 8:00 PM and stopping at 9:30 PM on a date of 20th.

1 Press **SETUP**. The SETUP MENU screen appears.



2 Press ▲ or ▼ to select "TIMER REC SET" and press ENTER. The TIMER REC SET screen will appear.



Press ▲ or ▼ to select "NEW" and press ENTER. The program screen will appear.



Timer recording



### NOTES:

- Recording starts a few seconds be-
- fore the preset starting time.
  You cannot use the timer recording for the both DVD and VCR at the same time.
- You can playback the DVD during the VCR timer recording, and you can playback the VCR during the DVD timer recording.

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11 Select "OK" and press ENTER.

The timer program is determined and the TIMER REC SET screen appears again.

- 12 When you enter the other program for the timer recording, repeat the steps 3 to 11.
- 13 Press SETUP. The TIMER REC SET screen disappears and the display will return to the normal screen.
- 14 Press TIMER REC. The timer indicator "El" will appear on the display and the unit stands by for recording.

   If the program is DVD recording only, the unit will change to VCR mode automatically. (The DVD mode cannot be selected.)
   If the program is VCR recording only, the unit will change to DVD mode automatically. (The VCR mode cannot be selected.)
   If the programs are DVD and VCR recording, the unit will turn off. If you want to use the unit, press TIMER REC again to deactivate the timer.

  - deactivate the timer.

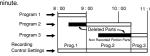
### Checking or changing the timer recording

When you want to check the selected timer recording, follow the steps 1 and 2 of "Setting timer recording" and display the TIMER REC SET screen. To change the timer recording, select the program to be changed and press ENTER. The changing method is the same as that for the recording a program for the first time.

Cancelling the timer recording
Display the TIMER REC SET screen.
Select the program you want to cancel and press CANCEL, then the
selected program will be erased from the timer recording list.

### In case Timer programs-overlap

Do not overlap timer programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram below. In this case, the next recording time is delayed a maximum of about



# Chase Playback



You can begin playback from the beginning of a program currently being recorded. You will find this function of great advantage on long programs, as you do not have to wait for the end of recording to begin playback.



- Chase playback is unable when
- Slow, Instant skip, Instant replay, A-B repeat, and Frame advance does not work during chase play-
- until 30 seconds of recording have
- chase playback, the information screen is displayed (see page 35).

While recording a TV program on the DVD-RAM disc, press PLAY to start chase playback.

The TV program as it is being recorded will played back

Locate a scene you want through the following operations if nec-

Still playback:
Press PAUSE.
• To resume chase playback, press PLAY.

speed of the search.

To resume chase playback, press PLAY.

If the playback position catches up to within about 60 seconds, chase playback resumes. It may differ depending on the recording condition and search speed.

Locating a chapter:

Press SKIP I ← I believe to locate a chapter that you want to watch.

If you press SKIP ▶ while playing back the newest chapter, it starts playing back from about 15 seconds before the

Locating a specific scene:
Press PLAY MODE enables you to do a Time Search or a Chapter Search. (See page 37.)

Press STOP to end chase playback.
If you press STOP again, the recording stops.

### Notes:

- Chase playback is unable when recording a DVD-RW/R disc and video tape.
- recording in XP mode.
- Chase playback does not work
- If you press DISPLAY during

# Stereo recording and playback

The VHS Hi-Fi audio system permits high fidelity recording of MTS STEREO TV broadcasts.



OUTPUT SELECTION SOUND HEARD ON BOTH SPEAKERS STEREO STEREO LEFT CHANNEL AUDIO RIGHT CHANNEL AUDIO L ch R ch MONO

ers. This button has no effect when viewing a monaural audio pro-gram. Each time when you press the button, output selection display appears on the screen for several seconds. Refer to the chart below.

When using a Cable TV system, stereo TV programs may be transmit-ted over a mono cable channel. In this case the word "STEREO" will

Output selection

When viewing an MTS STEREO TV program, or playing a prerecorded Hi-Fi STEREO on video tape, press AUDIO SELECT to select how the audio will be heard through the speakers. Normally set to the Hi-Fi STEREO position, this button can be set to the MONO position if the stereo audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This hutton has no effect when viewing a monaural audio program.

Output selection for DVD

When a MTS STEREO broadcast is received, the word "STEREO" will appear on the screen and the program can be viewed

or recorded in stereo.
The Hi-Fi STEREO recording procedure is

not appear and the sound will be in mono.

the same as for normal recordings

Output selection for DVD
You can switch between the left or right channel and stereo only
when playing a disc on which a bilingual broadcast was recorded in
the DVD-RW VR mode. It is not possible to switch between channels
otherwise as only the channel selected in the setting of SAP (Second
Audio Program; ON or OFF) is recorded in the DVD-RW Video mode or DVD-R (see page 31).

When a stereo or monaural broadcast is recorded, either stereo or monaural, respectively, is played back and it is not possible to switch between channels.

- When playing back a video tape or disc that is not recorded in Hi-Fi stereo mode, the audio will automatically be monaural.
- matically be monaural.
  When listening to a Hi-Fi video
  tape, disc or MTS broadcast
  through the RF OUT (UHF/VHF)
  jack (Audio/Video cord not connected), the sound will be monau-

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# Editing the disc

This section explains how to edit the recorded contents on DVD-RWs. However, the items that you can edit vary with the recording formats. In VR mode, you can edit various title menus, whereas in Video mode, you can edit only a

# When the content is recorded, a title name that includes the date, time

when the contents recorded, a tile name that includes the date, time, channel number and other information is created automatically. The title menu can be used when you playback after confirming the contents (see page 34), or when you check the contents recorded on

### Original title

The titles explained above are called original titles; these will be added with every recording. In VR mode you can do various editing operations i.e., you can rename the titles, or add the chapter marks. In addition, you can erase the unnecessary titles to increase the disc space.

You can create a playlist based on the original titles.

You can combine or erase undesired scenes.

If you create a playlist it will become the primary list used by the disc.

If you create a playlist to customize your viewing preferences, and choose to delete it, the original titles will not be affected. It is recommended to create and edit the playlist to prevent important titles from mended to dreate and edit the playlist to prevent important titles from being erased accidentally. If you create a playlist, both the original title and playlist will be displayed on the title menu.

The items that can be edited are different between original title and playlist. For the disc in Video mode, only the title name can be edited. The items can be edited in each are as follows:

| Editing items       | VR mode  |          | Video mode |  |
|---------------------|----------|----------|------------|--|
| Editing items       | Original | Playlist | Original   |  |
| Playback            | Y        | Υ        | Υ          |  |
| Adding chapter mark | Y        | N        | N          |  |
| Combining chapters  | Y        | N        | N          |  |
| Erasing scenes      | Y        | Y        | N          |  |
| Erasing titles      | Y        | Y        | N          |  |
| Renaming titles     | Y        | Y        | Y          |  |
| Creating playlist   | Y        | N        | N          |  |
| Combining titles    | N        | Y        | N          |  |

If you finalize the disc in Video mode, the title menu is automatically changed. Thumbnail image and recording information will not appear in the title menu after finalizing.

Using these editing functions to modify copyrighted content for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

# **E**diting a playlist

You can create and edit the playlist based on the original title.



- Preparation:
  Turn ON the TV and set to the video input mode.
  Load the recorded DVD-RAM/RW (VR).
- Press DVD to select the DVD mode. (The DVD indicator will light.)

# Creating a playlist 🤮 🚇

1 Press TITLE MENU. The title menu will appear



2 Press ▲ or ▼ to select the original title which will be used as the

3 Press ▶. The editing menu of original title will appear.

4 Press ▲ or ▼ to select "NEW PLAYLIST".



Press ENTER. The editing menu closes and the created playlist appears at the bottom of the list.
Created playlist

Created playlist

# NOTES:

- A playlist can only be created with a DVD-RAM or a DVD-RW in VR mode. You cannot create a playlist with a DVD-RW in Video mode, nor
- with a DVD-RW in video fillode, nor with a DVD-R. In case the disc includes more than 10 titles, you can turn to the next or the previous page. (See page

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NOTES:

This unit cannot record or edit a disc which was recorded or edited using another DVD recorder. You cannot edit or record the disc on which disc protection is set. In such a case, he sure to cancel the disc protection before starting the operation.

When a scene has been erased,

the selected position for erasing may vary slightly from the actual erased position.

# **Editing a playlist**



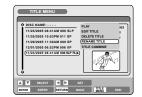
- NOTES:
   The title name can be a maximum of 64 characters. Long names will be shortened in the title menu.
- For using the keyboard screen, see "Changing a disc name" (page 75)

- 1 Press TITLE MENU to display the title menu.
- 2 Select the playlist where you want to change the title name.

   Press ▲ or ▼ to select the playlist.

   Press ▶ to display the editing menu of the playlist.

   Press ▲ or ▼ to select "RENAME TITLE".



- 3 Press ENTER
- The keyboard screen will appear
- 4 Use the keyboard screen to enter the title name.



5 Press DISPLAY to return the title menu.



Changing a title name 🚇 🚇



Editing a playlist

0000

003

456

739

SPEED RECIOTA TIMER REC SLOW

SETUP

CANC

# Erasing a scene (Edit title)



- You can erase an unnecessary scene from the created playlist.
  When you erase the scene from the playlist, the scene is not erased from the original title. 1 Press TITLE MENU to display the title menu.
- 2 Select the playlist where a scene you want to erase is included.

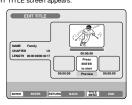
   Press ▲ or ▼ to select the playlist.

   Press ▲ or ▼ to editing menu of the playlist.

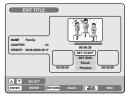
   Press ▲ or ▼ to select "EDIT TITLE".



Press ENTER.
The EDIT TITLE screen appears.



4 Press ENTER to playback the playlist on the EDIT TITLE screen Use each operation button (F.FWD, REW, SKIP+, SKIP-, PLAY, PAUSE/STILL, SLOW, INSTANT SKIP) for the playback to search the starting point of the scene you want to erase.



65 64

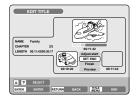
### Editing a playlist



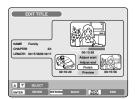
NOTE:

It is no problem to omit the proce-dures for confirming the scene of adjusting start and end points.

Press ▲ or ▼ to select "SET START" at the start point of the scene that you want to erase and press ENTER. (To set the start point easily, search the start point while "SET START" is selected) The still image at the start point appears at the left small screen



Press ▲ or ▼ to select "SET END" at the end point of the scene you want to erase and press ENTER. The still image at the end point appears at the right small screen.



- 7 Check the erased scenes.
  - Select "Preview" and press ENTER. Then the video where the scenes between the start and end points are erased is played
  - Each operation button (F.FWD, REW, SKIP +, SKIP -, PLAY, PAUSE/STILL) for playback also can be used.
- 8 Adjust the start and end points.
   To adjust the start point, select "Adjust start" and press ENTER. You can change the start point by pressing ◀ or ▶.
   To adjust the end point, select "Adjust end" and press ENTER.
  - You can change the end point in the same way as the start point.
- 9 If you determine the scene to be erased, press ▲ or ▼ to select "Finish" and press ENTER.
  - A chapter mark is automatically added at the location of the

# **E**diting a playlist



# Combining the title

You can create a playlist by combining the several original titles or playlists. To combine the titles, it is necessary to create a playlist at first. By combining the titles in the playlist, a playlist where several titles are combined is created.

- 1 Press TITLE MENU to display the title menu.
- 2 Select the playlist where you want to combine the titles.
- Press ▲ or ▼ to select the playlist.
  Press ▶ to display the editing menu of the playlist.
  Press ▲ or ▼ to select "TITLE COMBINE".



3 Press ENTER. Select the title that you want to combine from the title menu



Following the playlist, the selected title is combined. The several titles were combined so that the total recording time is



# **Editing a playlist**



# Erasing a playlist 🧟 🧟



You can erase the created playlist. Even if you erase the playlist, the original title will not be erased.

- 1 Press TITLE MENU to display the title menu.
- 2 Select the playlist that you want to erase.

   Press ▲ or ▼ to select the playlist.

   Press ▶ to display the editing menu of the playlist.

   Press ▲ or ▼ to select "DELETE TITLE".



3 Press ENTER The selected playlist will be erased.



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# Editing an original title

In VR mode, you can edit various items, whereas in Video mode you can edit the title names only



### NOTES:

- You can automatically add a chap-ter mark in recording. For more in-formation, see page 31. In case the disc includes more than
- 10 titles, you can turn to the next or the previous page. (See page

- Preparation:

   Turn ON the TV and set to the video input mode.
- Load the recorded disc.
   Press DVD to select the DVD mode. (The DVD indicator will light.)

# Adding a chapter mark 🚇 🗐

You can add a chapter mark to the original title. You can add up to 999 chapter marks to one disc.

- 1 Press TITLE MENU to display the title menu.

- 2 Select the original title where a chapter mark is added.

   Press ▲ or ▼ to select the original title.

   Press ▶ to display the editing menu of the original title.

   Press ▲ or ▼ to select "ADD CHAPTER MARK".



Press ENTER.
The ADD CHAPTER MARK screen will appear



Press PLAY to search a scene where you want to add the chapter mark.

 Search the scene by using each operation button (F.FWD, REW, SKIP+, SKIP-, PAUSE/STILL, SLOW, INSTANT SKIP) for the



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### Editing an original title



Chapter marks that have been added automatically in the erasing of a

scene procedure (page 72) cannot

5 When the scene you want to add a chapter mark, press ENTER. The playback is paused and the position of the added chapter mark appears green.



- 6 If you want to continue to add chapter mark, repeat step 5.
- Adding chapter marks is finished.
   To display the title menu, press RETURN.
   To return to the normal screen, press TITLE MENU.
- Combining chapters 🚇 🗐 By erasing the added chapter marks, the chapters can be combined.
- 1 Press TITLE MENU to display the title menu.
- 2 Select the original titles where you want to combine the chapters.

   Press ▲ or ▼ to select the original title.

   Press ▶ to display the editing menu of original title.

   Press ▲ or ▼ to select \*COMBINE CHAPTERS\*.



Press ENTER.
The COMBINE CHAPTERS screen will appear. At the beginning, the top still image in the chapter 2 is displayed.

# Editing an original title



The title name can be a maximum of 64 characters in VR mode and a maximum of 30 characters in Video

Long names will be shortened in the title menu.



- 4. Press SKIP + or SKIP to select the chapter marks to be erased.
- 5 Press ENTER

The chapter marks are erased and 2 chapters are combined into 1 chapter.

- 6 To continue erasing the chapter marks, repeat steps 4 and 5

- The combining chapters will completed.

  To display the title menu, press RETURN.

  To return to the normal screen, press TITLE MENU.

### Changing an original title name



1 Press TITLE MENU to display the title menu.

- 2 Select the original title that you want to rename.
- Press ▲ or ▼ to select the original title.
  Press ▶ to display the editing menu of original title.
  Press ▲ or ▼ to select "RENAME TITLE".



The keyboard screen will appear

The entering method of the title name is the same as for the playlist. See the steps 4 and 5 of "Changing a title name" in "Editing a playlist" (page 64) and enter the title name.

NOTE:

# Editing an original title



- original title, the created playlist is erased.
- Disc space will only be freed up if scenes lasting several minutes are
- · A chapter mark is automatically added at the location of the erased

# Erasing a scene (Edit title)

You can erase an unnecessary scene from the original title. Erase the scene after checking the title. You cannot restore the erased scene.
When you erase the scene, you can increase the disc space.

- 1 Press TITLE MENU to display the title menu.
- 2 Select the original title where a scene you want to erase is in-
  - Press ▲ or ▼ to select the original title.
  - Press ▶ to display the editing menu of original title.
    Press ▲ or ▼ to select "EDIT TITLE".



3 By pressing ENTER, the following message screen will appear.



- 4 Press ◀ or ▶ to select "YES" and press ENTER, then the EDIT TITLE screen will appear.
   By selecting "NO", the title menu appears.
- 5 The method for erasing a scene is the same as for the playlist. See the steps 4 to 9 of "Erasing scenes (Edit title)" in "Editing a playlist" (page 65).

# Editing an original title



If the original title is erased the created playlist is also erased.

# Erasing an original title



- 1 Press TITLE MENU to display the title menu.
- 2 Select the original title you want to erase
- Press ▲ or ▼ to select the original title.
  Press ▶ to display the editing menu of original title.
  Press ▲ or ▼ to select "DELETE TITLE".



3 By pressing ENTER, the following message screen will appear.



- 4 Press ■ or ■ to select "YES" and press ENTER, then the original title will be erased.
  - nal title will be erased.
    Erasing the title will be cancelled by selecting "NO".

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# Changing a disc name

You can change a disc name from the title menu.



- Turn ON the TV and set to the video input mode.

  Load the recorded DVD disc.

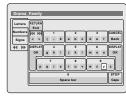
  Press DVD to select the DVD mode. (The DVD indicator will light.)

# Changing a disc name

- 1 Press TITLE MENU to display the title menu.
- 2 Press ▲ or ▼ to select "DISC NAME".
   Press ▶ to display the editing menu.
   Press ▲ or ▼ to select "RENAME DISC".



- 3 Press ENTER.
- The keyboard screen will appear
- 4 Use the keyboard screen to enter the disc name



5 Press DISPLAY to return the title menu.



# Changing a disc name

### Using the keyboard screen

This section explains the function of the keyboard screen and how to input characters. The disc name and the title name can be changed using the keyboard

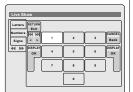
Keyboard screen types
The keyboard screen has three types of "Letters", "Numbers" and "Signs". The type can be switched over by pressing REW or F.FWD.

This is mainly used for inputting alphabeti-

For the keyboard screen of Letters, see the

previous page.

Numbers: This is used for inputting numbers



This is used for inputting symbols



# Inputting characters

There are two methods for inputting characters

### Character input 1

- Press ▲, ▼, ◀ or ▶ to select the character to be input.
- Press ENTER.
  The selected c

cted character will be input.

### Character input 2

Example: Explained here is the procedure when you input "F" and "J".

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Press the **numeric keys** continuously and select the character to be input.

To input F, press 3 twice.



When the interval between the pressing **numeric keys** is 2 seconds or more in selecting the input character, the selected character will automatically be input.

Stop the key operation when you select the character to be input.
The selected character will automatically be input.



3 Press the numeric keys where the following char-



4 When the character to be input is selected, stop he key operation. The selected character is automatically input.







74

NOTES:

The disc name can be a maximum

of 30 characters. Long names will be shortened in the title menu. For using the keyboard screen, see

"Using the keyboard screen" (page

A DVD-R disc cannot be named after it is finalized.

# Changing a disc name

### Erasing a character

### Erasing method 1

1 Press ▲, ▼, ◀ or ▶ to select "Back"

# 2 Press ENTER

The last input character will be erased

3 To erase the characters continuously, press ENTER The input characters will be erased from the last to

### Erasing method 2

Press CANCEL.
The last input character is erased.

2 To erase the characters continuously, press CAN-The input characters will be erased from the last to

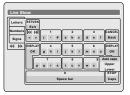
Erasing method 3
Use the cursor to select the character and erase it.

- Press **SKIP** or **SKIP** + to move the cursor after the character you want to erase.
- 2 Press CANCEL. Erase the character before the cursor position.

# Selecting between uppercase and lowercase

You can select either uppercase or lowercase letters when modifying your titles, using the keyboard screen with the "Letters" tab.

Press STOP (Or, press ▲, ▼, ◀ or ▶ to select "Caps", then press ENTER.)



2 Press ▲ or ▼ to select the type of letters in the list below and press ENTER

Auto caps: Determines uppercase and lower-case automatically.

Inputs all with uppercase letters. Inputs all with lowercase letters.

Determining a name
To determine the entered disc name and title name, press DISPLAY. Or, press ▲, ▼, ◀ or ▶ to select "OK", then press ENTER.

The keyboard screen disappears and the display will return to the title menu.

The entered disc name and title name are displayed in

### Cancelling character input

When you want to cancel the input and changed characters, press RETURN. Or, press ▲, ▼, ◀ or ▶ to select "Exit", then press ENTER.

The input and changed characters are cancelled and

the title menu will appear.

# Dubbing a tape onto a disc





0000

123

(4)(5)(6)

739

AUSE/STILL PLAY

NOEX REW FFWD NDEX

SPEED RECIOTR TIMER REC SLOW ANGLE/ AUDIO, SUBTITLE CLOCK/
CONTENSIS REPEAT

EDOW PLAY MODE
TRO RETURN AS REPEAT

REPEAT

NOTES:
- Dubbing cannot be accomplished

a copy protected tape is used. disc protection is set.
disc has no recording space

grams or movies can be used only for your personal enjoyment with-out permission of the copyright holder.

· Dubbing stops when the video tape is played back to the end and stops.

- recording space becomes full.

• The videos recorded from TV pro-

SETUP

Preparation:
Turn ON the TV and set to the video input mode. You can record video or audio on a video tape onto a disc.

Load a source video tape and a disc for recording

Remove the erase protection tab of the source video tape to prevent the data from accidentally being erased.
 Confirm the disc space before operation.

Press DVD to set this unit to DVD mode The DVD indicator will light.

Press REC MODE/SPEED and select the recording mode.

When REC MODE/SPEED is pressed each time, "SP", "LP", "SLP" or "XP" is selected in this order. · The recording mode is indicated on both the TV screen and the

display window.

For the details of the recording mode, see page 52.

3 Press VCR and set the unit to VCR mode



### NOTE:

Confirm that the VCR indicator lights.

4 Press DUBBING.

The unit is changed to DVD mode automatically.

The VCR is waiting for playback and the DVD is waiting for cording. Then the following message will appear.

5 Press DUBBING, or press ◀ or ▶ to select "YES" and press

Dubbing starts.
To cancel dubbing, press STOP, or select "NO" and press ENTER.

TER.



In dubbing, VCR playback, DVD recording and "dub" (dubbing) indicator appear on the display window.

6 To stop dubbing, press STOP



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# Dubbing a disc onto a tape



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You can record both video and audio from a disc to a video tape. When a disc with a copy guard is used, a distorted image is recorded onto the video ta



# NOTES:

- Dubbing cannot be accomplished when
- a copy protected disc is used.
   the erase prevention tab of video tape is removed.
- Dubbing stops when
- the disc is played back to the end
- and stops.
  no recording space on the Video tape remains
- During dubbing, the unit is changed to interlaced scan mode automatically, if it has been previ-ously set to progressive scan
- If no special permission is obtained from the copyright owner, videos recorded from TV programs or movies can only be used for your own personal enjoyment.

- Turn ON the TV and set to the video input mode.
   Load a source disc and a video tape for recording.
   Confirm the remaining tape for recording before operation.
- The VCR indicator will light.
- Press REC MODE/SPEED and select the recording mode.

  When REC MODE/SPEED is pressed each time, "SP" or "SLP" is selected.
  - The recording mode is indicated on both the TV screen and the display window.

    • For the details of the recording mode, see page 48.
- 3 Press DVD and set the unit to DVD mode.
  - DVD



# NOTE:

Confirm that the DVD indicator lights.

- 4 Press DUBBING.
  - The DVD is waiting for playback and the VCR is waiting for recording. Then the following message appears.
- Press **DUBBING**, or press **◀** or **▶** to select "YES" and press **ENTER**.
  - Dubbing starts.

    To cancel dubbing, press **STOP**, or select "NO" and press **EN-**



In dubbing, DVD playback, VCR recording and "dub" (dubbing) indicator appear on the display window



# Dubbing only the specified titles or the playlist

When you want to dub only specific titles or playlists recorded on the disc, start the playback of the desired title or playlist, and then immediately press DUBBING, STOP or PAUSE/STILL. If you press DUBBING, proceed from step 5 above. If you press STOP or PAUSE/STILL, proceed from step 4 above. The first few seconds of the title or playlist may not be recorded. When playback of the title or playlist is completed, the dubbing stops.

# Dubbing using other equipment



NOTES:

If using a monaural VCR or other

equipment, connect Audio (L) IN jack to Audio OUT using only one

When this unit is used as a play-

when this unit is used as a play-back device, a mark or a charac-ter displayed on the screen is also dubbed as an image. When the screen display is set to OFF, see "DISPLAY" on page 28. If no special permission is obtained

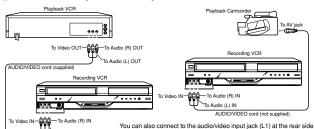
from the copyright owner, videos recorded from TV programs or movies can only be used for your

own personal enjoyment. You may not dub a copy protected

video or DVD disc.



You can connect another VCR or camcorder to dubbing. Typical connection: When using this unit as a recording device



of this unit. In addition, each S-Video input jack LT) at the lear side of this unit. In addition, each S-Video input jack at the front and rear sides can be used for recording on the disc. (The S-Video input jack cannot be used for recording on the video tape.)

### When a video is recorded using this unit

### Preparation:

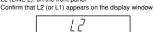
Turn ON the TV and set the unit to the video input mode.

Load a video tape where the erase-protection tab is not activated or

a disc with enough recording space

To record onto a video tape, set the unit to VCR mode, whereas to record onto a disc, set it to DVD mode.

1 Press INPUT SELECT and set the channel to L2 (or L1). L1 (LINE 1): on the rear panel L2 (LINE 2): on the front panel



Press REC MODE/SPEED and select the recording mode. VCR: SP or SLP (See page 48)
DVD: SP, LP, SLP or XP (See page 52)

3 Press REC/OTR on this unit, then press PAUSE/STILL.

Press the PLAY button on the playback device, then press the PAUSE/STILL button

5 Release the recording pause and the playback still simultaneously to begin the duplicating process

6 To stop dubbing, press STOP

# Glossary

### A-B Repeat Playback

Playback that repeats between two set points, A and B.

Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of dif-ferent angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs you can select the angle from which to view the scene.

### auto chapter

Feature that automatically makes chapter marks on a DVD disc during recording.

### auto clock

Feature that automatically sets the internal clock.

blue background
Feature that automatically changes unpleasant noise images to a blue screen when a channel without a broadcast or a channel on which the broadcast has ended has been selected.

### BROWSER screen

Screen that appears when TITLE MENU is pressed during MP3, WMA or JPEG CD is inserted.

CABLE Cable television.

### chapter A section within a title is called a "chapter"

Chase playback
Feature that playback from the beginning of a program currently being recorded.

### copy guard

Copyright protection signal. Software and broadcasts that contain this signal cannot be recorded.

### Dolby Digital

Dolby® Digital Recording enables consumers to recordable disc space, allowing for higher video resolution or extended recording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-Video players. Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

This is a digital sound system developed by Digital Theater Systems for use in cinemas. This system uses 6 audio channels and provides accurate sound field positioning and realistic acoustics. (By connecting a DTS Digital Surround decoder, you can also listen to DTS Digital Surround sound.)

DVD menu Menu recorded on a DVD-Video that enables the user to select subtitles language, dubbing, etc.

Operation that enables discs recorded or edited with this unit to be played back on other DVD players.

### Instant replay

If INSTANT REPLAY is pressed during playback, play-back returns to a point 10 sec earlier and resumes.

### Instant Skip

When pressed during playback, playback jumps 30 sec ahead and resumes.

# interlaced scanning

Technology that alternately displays odd-numbered scanning lines and even-numbered scanning lines. Also called "480i", "i" meaning "interlace".

Feature that displays black bands above and below the playback images during playback of a disc re-corded in wide (16:9) format on a 4:3 TV connected to this unit.

One type of audio compression that uses MPEG1. This format compresses the sound to use up about 1/ 10 of the original file space, without inpairing the original sound quality.

### original title

The file created by recording something is called an "original title"

One-touch Timer Recording. Start a timed recording by pushing just one button (up to 6 hours).

### nan scan

Feature that cuts the left and right edges of playback images to a 4:3 size during playback of a disc recorded in wide (16:9) format on a 4:3 TV connected to this

### parental control

Some discs control viewing according to the age of the viewer. A control level can be set for those types of discs.

# Glossary

### parental control settings

Adult discs and general discs (R-rated

discs included) cannot be played back.
Level 2 to 3: Adult discs and R-rated discs cannot be played back.
Level 4 to 7: Adult discs cannot be played back.

(Level 4 to 7 discs contain content children age 15 and younger may not see.) All discs can be played back without

restriction.

### PBS

Acronym for Public Broadcast System. The PBS channel transmits data for auto clock setting

User-created titles based on each original title.

### Progressive scan

Technology that simultaneously displays odd-num-bered scanning lines and even-numbered scanning lines from top to bottom. Also called "480p", "p" mean ing "progressive"

region number
There is software that enables DVD playback in differing countries. The number of that kind of disc is called the "region number".

### SETUP MENU

Menu that contains settings for various features of this unit, such as recording and playback. Timer recording is also set from the SETUP MENU.

slide show
Technique for flipping through and viewing many images (JPEG files).

### subtitle language

Language used for subtitles of movies, etc. Viewers can watch in a language of their choosing.

A program recorded on a disc is called a "title".

title menu

Menu that lists titles and tracks recorded on the disc. It is used for playback and disc editing.

Menu on a DVD-Video for selecting chapters for play-back, subtitle language, etc. Some DVD-Video call this top menu "Title".

### track

A song on an Audio CD is called a "track".

### TRACK INFO screen

The screen that appears when TITLE MENU is pressed, if an Audio CD disc is in the unit.

### Video mode

This recording format is compatible with commercially available DVD players.

### rirtual surround

Technology that converts audio that is not recorded in surround sound into audio that assimilates surround sound.

VR mode
This recording format is the basic DVD-RW recording format, and lets you enjoy the various editing functions available with this unit

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# Language code list

Enter the appropriate code number for the initial settings "DVD MENU", "AUDIO" and/or "SUBTITLE" (see page 24).

| Language Name   | Code | Language Name    | Code | Language Name  | Code  | Language Name | Code |
|-----------------|------|------------------|------|----------------|-------|---------------|------|
| Abkhazian       | 1112 | Fiji             | 1620 | Lingala        | 2224  | Singhalese    | 2919 |
| Afar            | 1111 | Finnish          | 1619 | Lithuanian     | 2230  | Slovak        | 2921 |
| Afrikaans       | 1116 | French           | 1628 | Macedonian     | 2321  | Slovenian     | 2922 |
| Albanian        | 2927 | Frisian          | 1635 | Malagasy       | 2317  | Somali        | 2925 |
| Amharic         | 1123 | Galician         | 1722 | Malay          | 2329  | Spanish       | 1529 |
| Arabic          | 1128 | Georgian         | 2111 | Malayalam      | 2322  | Sundanese     | 2931 |
| Armenian        | 1835 | German           | 1415 | Maltese        | 2330  | Swahili       | 2933 |
| Assamese        | 1129 | Greek            | 1522 | Maori          | 2319  | Swedish       | 2932 |
| Aymara          | 1135 | Greenlandic      | 2122 | Marathi        | 2328  | Tagalog       | 3022 |
| Azerbaijani     | 1136 | Guarani          | 1724 | Moldavian      | 2325  | Tajik         | 3017 |
| Bashkir         | 1211 | Gujarati         | 1731 | Mongolian      | 2324  | Tamil         | 3011 |
| Basque          | 1531 | Hausa            | 1811 | Nauru          | 2411  | Tatar         | 3030 |
| Bengali; Bangla | 1224 | Hebrew           | 1933 | Nepali         | 2415  | Telugu        | 3015 |
| Bhutani         | 1436 | Hindi            | 1819 | Norwegian      | 2425  | Thai          | 3018 |
| Bihari          | 1218 | Hungarian        | 1831 | Oriya          | 2528  | Tibetan       | 1225 |
| Breton          | 1228 | Icelandic        | 1929 | Panjabi        | 2611  | Tigrinya      | 3019 |
| Bulgarian       | 1217 | Indonesian       | 1924 | Pashto, Pushto | 2629  | Tonga         | 3025 |
| Burmese         | 2335 | Interlingua      | 1911 | Persian        | 1611  | Turkish       | 3028 |
| Byelorussian    | 1215 | Irish            | 1711 | Polish         | 2622  | Turkmen       | 3021 |
| Cambodian       | 2123 | Italian          | 1930 | Portuguese     | 2630  | Twi           | 3033 |
| Catalan         | 1311 | Japanese         | 2011 | Quechua        | 2731  | Ukrainian     | 3121 |
| Chinese         | 3618 | Javanese         | 2033 | Rhaeto-Romano  | e2823 | Urdu          | 3128 |
| Corsican        | 1325 | Kannada          | 2124 | Romanian       | 2825  | Uzbek         | 3136 |
| Croatian        | 1828 | Kashmiri         | 2129 | Russian        | 2831  | Vietnamese    | 3219 |
| Czech           | 1329 | Kazakh           | 2121 | Samoan         | 2923  | Volapük       | 3225 |
| Danish          | 1411 | Kirghiz          | 2135 | Sanskrit       | 2911  | Welsh         | 1335 |
| Dutch           | 2422 | Korean           | 2125 | Scots Gaelic   | 1714  | Wolof         | 3325 |
| English         | 1524 | Kurdish          | 2131 | Serbian        | 2928  | Xhosa         | 3418 |
| Esperanto       | 1525 | Laothian         | 2225 | Serbo-Croatian | 2918  | Yiddish       | 2019 |
| Estonian        | 1530 | Latin            | 2211 | Shona          | 2924  | Yoruba        | 3525 |
| Faroese         | 1625 | Latvian, Lettish | 2232 | Sindhi         | 2914  | Zulu          | 3631 |
|                 |      |                  |      | 1              |       |               |      |

# Problems and troubleshooting

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or

Be sure all connections are properly made when using with other units.

| SYMPTOMS  | POSSIBLE SOLUTIONS  | PAGE                               |
|---|---|------------------------------------|
| DVD/VCR   |   |                                    |
| DVD/VCR does not operate.   | Make sure the power cord is plugged in.     Try another AC outlet.     Power is off, check fuse or circuit breaker.     Unplug unit, then plug it back in.     Select the DVD or VCR mode before operating.   | 15<br>-<br>-<br>15<br>33,49        |
| No picture.   | Antenna connection is not correct or antenna cable is disconnected. The video channel is not in the correct position or the TV is not set to the video channel 3 or 4. Check the unit is connected correctly. The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent). Channel is set to the external mode.  | 16~19<br>22<br>16~21<br>-          |
| No sound.   | Check the unit is connected correctly.     Check the input selector of the amplifier is set properly.     The unit is in the Special playback mode.   | 16~21<br>_<br>36, 50               |
| The remote control does not function.   | Aim at the remote control at the remote sensor.     Operate within Approx. 7 meters or reduce the light in the room.     Clear the path of the beam.     The batteries are weak. Replace the batteries.     Check the batteries are inserted correctly.   | 15                                 |
| No Cable TV reception   | Check all Cable TV connections.     Station or Cable TV system problems, try another station.   |                                    |
| DVD   |   |                                    |
| Display is not shown in your lan-<br>guage.   | Select proper language in the SETUP MENU.   | 24                                 |
| Playback doesn't start.   | No disc is inserted. The disc may be dirty. Clean up the disc. The unit cannot play DVD-ROMs, etc.  | 33<br>9<br>9                       |
| Stopping playback, search, slow-<br>motion play, repeat play, or program<br>play, etc. cannot be performed. | Some discs may not do some of the functions.  | -                                  |
| Recording Does not work.  | Check the disc space, using the disc information. Check the disc for protection. Check if the video to be recorded is not "copy-guarded". Check that the number of recorded titles is 99 or less, using the disc information. Check the number of the total chapters for the recorded titles is 99, using the disc information. In a DVD-RW of Ver.1.0, recording in Video mode does not work. Check the disc type. | 35<br>28<br>53<br>35, 52<br>35, 52 |
| A Disc recorded using this recorder cannot be played back in other players.                                 | Check that the disc is finalized. Some DVD players will not play even if the disc has been finalized. If the disc was recorded in VR mode, the other player must be RW compatible in order to play the disc.  | 27<br>11, 28<br>11, 28             |

### Video head cleaning

### Video head clogging

The video heads are the means by which the DVD/VCR reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, have the DVD/VCR checked by qualified service personnel.

NOTES: • DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE

Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
 To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

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# Specifications

AC 120V 60Hz Operation: 29W Standby: 2:5W (if display window is off.) 12:1 lbs (5.5 kg) Width : 16-15/16 inches (430 mm) Height: 3-172 inches (89.5 mm) Depth: 12-9/16 inches (318.5 mm) 41°F to 95°F (5°C to 35°C) Less than 80% RH

Operating temperature: Operating humidity: Inputs/Outputs: Video:

In: 1Vp-p/75 ohm Out: 1Vp-p/75 ohm In: -8dBm/50k ohm Out: -8dBm/1k ohm UHF/VHF IN/OUT: 75 ohm coaxial

VCR section Video head: Audio track: Tuner:

4 Rotary Heads
Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
181 Channel Freq. Synthesized
VHF 2:13
UHF 14-69
Cable TV 14-36 (A)-(W) 37-59 (AA)-(WW)
60-85 (AAA)-(ZZZ) 86-94 (86)-(94)
95-99 (A-5)-(A-1) 100-125 (100)-(125)
10 (5A)
Channel 3 or 4, Switchable
Approx. 1minute and 48 seconds (with T-120 Cassette Tape)(at+25°C)
More than 90dB

RF channel output: F.FWD/REW Time:

Hi-Fi frequency response: Hi-Fi dynamic range:

NTSC
DVD (12cm), CD (12cm)
DVD-Video Recording (VR mode)
DVD-ViDEO (Video mode)
DVD-RAM, DVD-RW, DVD-R
XP: Approx. 50 min
SP: Approx. 120 min
LP: Approx. 340 min
SLP: Approx. 360 min Signal system: Applicable disc: Recording format:

Recording time: (based on a 4.7GB disc)

Audio characteristics frequency response:

S/N Ratio:

Dynamic range: Output:

DVD: 4Hz - 22kHz
DVD: 4Hz - 22kHz
DVD: 4Hz - 20kHz
90dB
Less than 1%
Less than 1%
Less than 10%
Wrms
More than 90dB
Video : (RCA) 1 Vp-p/75 ohm
Audio : (RCA) - 12 dBm/1k ohm
Digital Audio : 0.5 Vp-p/75 ohm
CD : Wavelength: 780 mb
Maximum output power: 8.5 mW
DVD: Wavelength: 680 mc
Maximum output power: 20 mW
Remote control (SE-R0180) x 1 Pickup:

ACCESSORIES: Remote control (SE-R0180) x 1 AUDIO/VIDEO Cable x 1

Battery R03/AAA x 2 This model complies with the above specifications.

Designs and specifications are subject to change without notice.

This model may not be compatible with features and/or specifications that may be added in the future. 86

# Error/Warning message list

|   | ERROR/WARNING MESSAGE                                      | CAUSE   | POSSIBLE SOLUTIONS  | PAGE   |
|---|--|---|---|--------|
| S                                       | SYSTEM ERROR<br>PLEASE WAIT                                | The power was shut down without completing the<br>termination process due to a power failure or dis-<br>connection of the AC cord plug. (Abnormal termi-<br>nation) | Wait until the message disappears.  | -      |
|   | SYSTEM ERROR<br>PLEASE WAIT<br>DISC CHECKING               | The power was abruptly turned off before writing to the disc was completed.   | The data is now restoring.  | -      |
|   | SYSTEM ERROR<br>DISC MIGHT BE FAILED<br>PRESS ENTER/SELECT | The data restoration was completed.   | Press ENTER, then the screen re-<br>turns to the normal display. The data<br>may not be restored even if the res-<br>toration process is performed. | 52     |
| Playback                                | NO DISC  | When a disc was not loaded in the unit, PLAY was pressed.   | Load a disc.  | 33     |
|   | REGION CODE ERROR  | A disc specified other than "Region 1" or "Region ALL" was loaded.  | A disc specified other than "Region<br>1" or "Region ALL" cannot be played<br>back  | 9      |
|   | INCORRECT DISC - C104, C105,<br>C106, C107                 | The disc cannot be identified.  | Check the disc and load a proper disc.  | 9      |
| P P P C C C C C C C C C C C C C C C C C | NO DISC  | When a disc was not loaded into the unit, REC/<br>OTR was pressed.  | Load a disc.  | 54     |
|   | PROCESSING<br>PLEASE WAIT                                  | The recording termination is processing.  | Wait until the process is completed.  | -      |
|   | RECORDING INTERRUPTED -<br>C204                            | Disc became full during recording.  | Erase unnecessary titles or load<br>another disc and restart recording.   | 72     |
|   | CANNOT RECORD - C203                                       | Recording was tried onto the disc having no space.  | Check the disc space.   | 35     |
|   | CANNOT RECORD - C206                                       | Recording was tried onto the disc which does not<br>support recording.  | Load a recordable disc.   | 10     |
|   | CANNOT RECORD, DISC PROTECTED                              | Disc erase-protection is applied.   | RAM Disc:<br>Turn the protect switch to OFF on<br>the cartridge itself.<br>Or turn OFF the protect from Disc<br>Setup.                              | 28     |
|   | CANNOT RECORD - C208                                       | Recording was tried onto the finalized disc.  | Undo finalization or load another<br>disc for recording.  | 28     |
|   | CANNOT RECORD - C209                                       | Adding data was tried onto the disc recorded in<br>the other unit.  | Load another disc for recording.  | -      |
|   | CANNOT RECORD - C210                                       | Adding data was tried to the disc where PC data was recorded  | Load another disc for recording.  |        |
|   | DISC ERROR - C205, C211, C212,<br>C213                     | A scratch or contamination was found on the disc.   | Check the disc and reload it, or use another disc for recording.  | -      |
|   | CANNOT RECORD, EXCEEDS<br>LIMITED NUMBER OF TITLES         | 99 titles were recorded on the disc.  | Erase unnecessary titles or load<br>another disc.   | 73     |
|   | CANNOT RECORD, EXCEEDS<br>LIMITED NUMBER OF CHAPTERS       | 999 chapters exist on the disc.   | Erase unnecessary chapters or<br>load another disc.   | 70     |
|   | CANNOT RECORD<br>PROTECTED IMAGE                           | Recording was attempted on a copy protected<br>video.   | You cannot record a copy protected<br>video.  | 53     |
|   | RECORDING INTERUPTED PROTECTED IMAGE                       | The video was changed to a copy-guard format<br>in recording.   | You cannot record a copy protected video.   | 53     |
|   | CANNOT RECORD IN VIDEO MODE.<br>COPY IMAGE ONCE ONLY.      | Recording was attempted of a "Copy Once" program<br>onto a disc (Video mode).   | Load a DVD-RW Ver. 1.1 or later<br>(VR mode) with CPRM.   | 53     |
|   | CANNOT RECORD ON DISC.<br>THIS IS NOT CPRM DISC.           | Recording was attempted of a "Copy Once" program onto a disc without CPRM.  | Load a DVD-RW Ver. 1.1 or later<br>(VR mode) with CPRM.   | 53     |
| lubbing                                 | SWITCHING TO INTERLACE OUT-<br>PUT FOR COPYING             | Dubbing was initiated from a disc to a video tape in the progressive scan mode.   | The mode is automatically changed<br>to interlaced mode if dubbing from<br>a disc to a video tape.  | 78     |
|   | CANNOT COPY DATA - C251                                    | No video tape or disc is inserted as a source for<br>the recording.   | Load a video tape or disc into the source drive.  | 77, 78 |
|   | CANNOT COPY DATA - C254, C255                              | The source video or disc to be copied is copy-<br>guarded.  | You cannot dub a video containing copy-guarded material.  | 53     |
|   | COPYING INTERRUPTED  | The video tape or disc became full during dubbing.  | Load another video tape or disc for<br>recording and restart.   | 77, 78 |
| isc setup                               | DISC ERROR - C302, C303                                    | Cannot Format disc due to a scratch or contami-<br>nation on the disc.  | Check the disc and reload it, or use<br>another disc for recording.   |        |
|   | DISC ERROR - C304, C305                                    | Cannot Finalize disc due to a scratch or con-<br>tamination on the disc.  | Check the disc and reload it, or use<br>another disc for recording.   | -      |
|   | DISC ERROR - C306  | Cannot Undo Finalize disc due to a scratch or<br>contamination on the disc.   | Check the disc and reload it, or use<br>another disc for recording.   | -      |
|   | DISC ERROR - C307, C308                                    | Cannot Protect disc ON/OFF due to a scratch<br>or contamination on the disc.  | Check the disc and reload it, or use<br>another disc for recording.   | -      |
| itle Menu                               | CANNOT EDIT  | Editing cannot be performed due to a scratch or<br>contamination on the disc.   | Check the disc and reload it, or use<br>another disc for recording.   |        |
|   | CANNOT EDIT - C408   | Combining chapters cannot be performed.   | Chapter marks that have been<br>added automatically in the erasing<br>of a scene procedure cannot be<br>erased.                                     | 70     |
|   | PROCESSING<br>PLEASE WAIT                                  | A process requiring a longer time such as edit-<br>ing is being performed.  | Wait until the process is complete.   | -      |

NOTE: Any error/warning message other than those above might appear. Take measures against such a message

# Limited warranty

### **Limited United States Warranty** Digital Audio Video ("DAV") Product - Depot Repair Warranty

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DAY PRODUCT AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

DAV PRODUCTS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

DAV PRODUCTS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty on Labor
TACP warrants this DAV Product and its parts against
defects in materials or workmanship for a period of ninety
(90) days after the date of original retail punchase.
DURING THIS PERIOD, TACP WILL, ATTACP'S
OPTION, REPAIR OR REPLACE A DEFECTIVE PART
WITH A NEW OR REFURBISHED PART WITHOUT
CHARGE TO YOU FOR PARTS OR LABOR.

### Limited One (1) Year Warranty on Parts

Limited One (1) Year warranty on Parts
TACP further warrants the parts in this DAV Product
against defects in materials or workmanship for a period
of one (1) year after the date of original retail purchase.
DURING THIS PERIOD, TACP WILL, AT TACP'S
OPTION, REPAIR OR REPLACE A DEFECTIVE PART OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR THE PART, PROVIDED THAT IN A DEFECTIVE PART IS REPAIRED OR REPLACT IF A DEFECTIVE PART IS REPAIRED OR REPLACE OF ORIGINAL RETAIL PURCHASE, THE CONSUMER SHALL PAY ALL LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT THEREOF.

The warranty for DAV Product rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

### **Commercial Units**

DAV Products sold and used for commercial purposes have a limited warranty for all parts and labor, which warranty begins on the date of original retail purchase and ends on the date that is ninety (90) days thereafter. Read this owner's manual thoroughly before operating this DAV Product.

Complete and mail the enclosed product registration card Complete and main the enclosed photocci registation can or register your DAV Product on-line at <a href="https://www.tacp.toshiba.com/service">www.tacp.toshiba.com/service</a> as soon as possible. By registering your DAV Product you will enable TACP to bring you new products specifically designed to meet your oring you new products specifically designed to meet you needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility
THE ABOVE WARRANTIES ARE SUBJECT TO THE
FOLLOWING CONDITIONS:

- (1) You must retain your bill of sale or provide other proof
- (2) All warranty servicing of this DAV Product must be made by the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.
- (3) The warranties from TACP are effective only if the DAV Product is purchased and operated in the DAV Product is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any DAV Product or parts that have been lost in discarded by you or to damage to the DAV Product or parts caused by tires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions turnished by TACP; use or malfunction through simultaneous use of this DAV Product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illieptible. removed, altered, defaced, or rendered illegible